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GRAY HERBARIUM

Received Feb. 17, 1909.

Morris.

Flora Nottinghamiensis,

OR A

SYSTEMATIC ARRANGEMENT

OF THE

PLANTS,

GROWING NATURALLY IN THE COUNTY OF

NOTTINGHAM;

WITH THEIR

LINNÆN AND ENGLISH NAMES,
GENERIC AND SPECIFIC CHARACTERS
IN LATIN AND ENGLISH,
PLACES OF GROWTH,
AND
TIME OF FLOWERING.

By THOMAS ORDOYNO,
Nurseryman and Seedsman, Newark.

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1807.

FEB 17 1909
Herbarium

TO

Mrs. SHERBROOKE,

OF

OXTON,

IN THE COUNTY OF NOTTINGHAM,

THIS VOLUME

IS, WITH HUMBLE DEFERENCE, INSCRIBED,

AS AN

INADEQUATE TESTIMONY OF RESPECT,

FOR HER

ACKNOWLEDGED ATTAINMENTS

IN THE

SCIENCE OF BOTANY.

By her obedient Servant,

Thomas Ordoyno.

NEWARK, August 5th, 1807.

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THE

PREFACE.

Full many a flower is born to blush unseen,
And waste its sweetness on the desert air.---
GRAY.

BOTANISTS have invariably been accustomed to publish national or provincial FLORAS, according to the extent of those limits within which their personal researches have been exercised. In no country however, has indigenous BOTANY been prosecuted with more elaborate investigation than in GREAT BRITAIN. We can adduce the venerable names of *Ray*, *Dillenins*, *Hudson*, *Lightfoot*, *Withering*, *Curtis*, *Relhan*,

Sibthorpe, and others; but above all, of *Smith*, whose English Botany, and Flora Britannica, are, independent of his previous celebrity, sufficient to establish his title to unrivalled pre-eminence.—Even NOTTINGHAMSHIRE has not been destitute of a naturalist, to record the history of her vegetable inhabitants; nearly a century has elapsed, since *Deering* published his "CATALOGUE "OF PLANTS NATURALLY GROWING ABOUT "NOTTINGHAM;" and although the busy hand of human industry has, in the lapse of time, altered the face of nature, and expelled many of these inoffensive tribes from the habitations, which they formerly occupied, still they are not extirpated; they are, even at this day, to be discovered, by their diligent votaries, in those sheltered assylums, where cultivation has not invaded the privacy of their sequestered retreat.—Thither would I conduct your steps, animated by the desire of introducing you to this aboriginal race, many of whom have eluded the observation of *Deering*, my predecessor, to

whose merits I shall be disposed occasionally to pay that tribute, to which they are deservedly entitled.

The generic and specific characters in Latin are extracted from the *Flora Britannica*, to which I must on every occasion refer you: those in English are taken from "WITHERING's *Botanical Arrangement of British Plants*," a work valuable to all, but inestimable to those who are unacquainted with the Latin language. It would have been easy to have substituted my own translation, but obvious reasons have induced me to prefer the plan which has been adopted:—With the assistance of these excellent authors, the BRITISH BOTANIST will obtain all the information of which he is solicitous. In their society he must pursue his studies within the house; the *Flora Nottinghamiensis* is intended as his companion in the field.—As such, it is presumed, that it will be found an acceptable manual to all, whom MEDICINE, AGRICULTURE, or AMUSEMENT, may incite

to the acquirement of an intimate acquaintance with the plants, indigenous to the County of NOTTINGHAM, and the situations in which they are to be found. Many of both sexes, have, I am well aware, successfully dedicated their attention to the attainment of similar objects.—From these, I will venture to solicit communications, which, with their permission, I shall gratefully acknowledge in a supplement to the FLORA NOTTINGHAMIENSIS.

Before I conclude, I feel it incumbent upon me to express my gratitude to those, who have honoured this volume with their patronage; to the owners of those lands, upon which I have, at any time, inoffensively trespassed; to Dr. BUCK of *Newark*, for the liberality with which he has, on all occasions, communicated with me on these subjects, and for the discovery of many rare plants;—to Mr. ORDOYNO of *Coddington*, under whose instruction, I acquired the rudiments of this science;—and more particu-

larly to the Rev. J. T. Becher of *Southwell*, at whose suggestion this work was undertaken; and to whom I stand indebted for the form which this publication now assumes, as well as for that unreserved assistance, which has effected the solution of every difficulty that occurred in the progress of this undertaking.

ERRATA ET CORRIGENDA.

PAGE 93. dele "frequent, Southwell; Newark." and read "very rare." I have not heard that this plant has been found in any part of this County, except in the ditches by the side of some small gardens at the foot of Nottingham Castle Rock, where two or three plants were discovered, about six years ago, by the Rev. J. T. BECHER.

FLORA NOTTINGHAMIENSIS.

Classis I.

MONANDRIA.

Smith. page 1. *Withering.* page 1.

Stamen 1.

MONOGYNIA.

Stylus 1.

* Angiospermæ.

1 *Flowers with ſtamens, and flowers with piſtils on the ſame plant.*

CHARA. *Bacca* polysperma.

CHARA. MALE. Calyx *none.*

FEM. Calyx 4 *leaves.* Summit 3-*cleft.* Seed 1.

DIGYNIA.

Styli 2.

CALLITRICHE. *Cal.* nullus. *Petala* 2. *Semina* 4. nuda.

CALLITRICHE. Cal. *none.* Bloss. 2 *petals.* Capsule *2-celled.*

1. MONANDRIA.

1. MONOGYNIA.

CHARA. *Smith. page* 4. *Withering. page* 2.

Cal. nullus. *Cor.* nulla. *Anthera* sessilis. *Stylus* nullus. *Bacca* polysperma.

MALE. Calyx *none.* Anther *at the base of the germen.*

FEM. Cal. 4-*leaved.* Summits 5-*cleft.* Seed 1.

vulgaris. C. inermis, striata, foliis subulatis articulatis.
C. *Stems smooth: leaves toothed on the inner side.*

COMMON CHARA. STONEWORT. STINKING WATER HORSETAIL. Ditches and pools; in the old gravel pits near Kirklington Mill. A. July, Aug.

hispida. C. sulcata, foliis subulatis articulatis, foliolis verticillatis, aculeis caulinis setaceis deflexis.
B. C. major subcinerea fragilis. *Raii Syn.* 132.
C. tomentosa. *Withering. page* 2.
C. *prickles on the stem, egg-shaped.*

RITTLE STONEWORT. Ditches and pools; in the clay pits, near Mapperly brick-kilns.

Deering. p. 54.

11. DIGYNIA.

CALLITRICHE. *Smith.* 8. *Withering.* 5.

Cal. nullus. *Petala* duo. *Stigmata* acuta. *Semina* quatuor, compressa, nuda, hinc marginato-alata.

Flores aliquot monoici.

Cal. *none.* Petals 2. Seeds 4; *naked, with a membranaceous border on one side.*

Callitriche. *aquatica.*

C. verna. *Upper leaves oval; not notched at the end.* *Withering.* 5.

WATER STARWORT. VERNAL STARGRASS. Ditches, ponds, and very slow streams; frequent. April---Oct.

B. Callitriche autumnalis.

C. *All the leaves strap shaped, cloven at the end. Flowers hermaphrodite.*

LONG WATER STARWORT. AUTUMNAL STARGRASS. Ditches and still waters; frequent. A. Sep.

Classis II.

DIANDRIA.

Smith. 11. *Withering.* 8.

Stamina 2.

1. MONOGYNIA.

Stylus 1.

* Flores inferi, monopetali, regulares.
1 *Blossom* 1 *regular petal*; *beneath.*

LIGUSTRUM. *Cor.* quadrifida. *Bacca* tetrasperma

LIGUSTRUM. Bloss. 4-*cleft.* Berry 4-*seeded.*

FRAXINUS. *Cor.* nulla, aut quadripartita. *Cap.* compressa, disperma.

FRAXINUS. Calyx *none*; *or with* 4 *divisions.* Bloss. *none*; *or of* 4 *petals.* Seed 1, *spear-shaped.*

* * Flores inferi, monopetali, irregulares, angiospermi.
2 *Bloss. irregular. Seeds in a capsule.*

VERONICA. *Cor.* quadripartita, rotata.

VERONICA. Bloss. *border with* 4 *divisions, lower segment the narrowest.* Caps. *inversely heart-shaped.*

PINGUICULA. *Cor.* ringens, calcarata. *Cal.* quinquefidus.

PINGUICULA. Bloss. *gaping, ending in a ſpur.* Cal. 5 *cleft.*

UTRICULARIA. *Cor.* ringens, calcarata. *Cal.* diphyllus.

UTRICULARIA. Bloss. *gaping, ending in a ſpur.* Cal. 2 *leaves.*

* * * Flores inferi, monopetali, irregulares, gymnospermi.

3 *Bloss. irregular. Seeds naked.*

LYCOPUS. *Cor.* subæqualis. *Stam.* distantia.

LYCOPUS, Bloss. *nearly regular.* Stam. *wide apart.*

SALVIA. *Cor.* ringens. *Filamenta* transverse pedicellata.

SALVIA. Bloss. *gaping.* Filaments *fixed across a pedicle.*

* * * * Fl. superi.

4 *Flowers ſuperior.*

CIRCÆA. *Cor.* dipetala. *Cal.* diphyllus.

CIRCÆA. Cal. 2 *leaves.* Bloss. 2 *petals inverſely heart-ſhaped.*

DIGYNIA.

Styli. 2.

ANTHOXANTHUM. *Cal.* gluma uniflora, bivalvis. *Cor.* gluma bivalvis, aristata.

ANTHOXANTHUM. Calyx, *husk with one flower; oblong.* Bloss. 2 *husks; awned.*

11 DIANDRIA.

1 MONOGYNIA.

LIGUSTRUM. *Smith.* 12. *Withering.* 10.

Cor. quadrifida. *Bacca* supera, bilocularis, tetrasperma.

L. Bloss. 4-*cleft*. Berry *with* 2 *cells*, 2 *seeds in each cell.*

vulgare. L. foliis elliptico-lanceolatis obtusis mucronulatis.

L. *Leaves egg-shaped, blunt: panicle with* 3 *divisions.*

PRIVET. PRIM. PRINT. Hedges in gravelly soils; not uncommon. Southwell. Newark. S. May, June.

FRAXINUS. *Smith.* 12. *Withering.* 57.

Cal. nullus, aut quadripartitus. *Cor.* nulla, aut quadripartita. *Caps.* supera, bilocularis, superne foliacea, compressa. *Sem.* solitaria, pendula.

Flores aliquot fœminei.

Cal. *none, or with* 4 *divisions.* Bloss. *none, or with* 4 *petals.*

Fem. and hermaphrodite flowers. Pist. 1. Caps. 2-*celled, leaf-like upwards, compressed*; 1 *cell barren.* Seeds *spear-shaped.*

F. Cal. *none, or with* 4 *divisions.* Bloss. *none, or with* 4 *petals.*

excelsior. F. foliolis serratis, floribus calyce corollaque destitutis.

F *Leaflets serrated: flowers without petals.*

COMMON ASH TREE. Woods and hedge rows.
T. Ap, May.

CIRCÆA. *Smith.* 13. *Withering.* 10.

Cor. dipetala. *Cal* diphyllus, superus. *Caps.* bilocularis. *Sem* solitaria

Bloss. 2 *petals.* Cal 2 *leaved, ſuperiour.*

C. caule erecto, foliis ovatis denticulatis opacis pubescentibus. *lutetiana.*

C. *Stem upright: bunches ſeveral: leaves egg-ſhaped.* Linn. *ſomewhat ſerrated: rough with hair.* Gmel. *Leaves egg-ſpear-ſhaped, hairs ſomewhat ſerrated.*

ENCHANTER'S NIGHT-SHADE. COMMON ENCHANTER'S WORT. Woods; moist hedge bottoms; in shady lanes; not uncommon. Southwell; Halam Hills; and in the following woods; Eperston, Oxton, Colwick, Wernham, Kirklington.

P. June, July.

VERONICA. *Smith.* 15. *Withering.* 11.

Cor. quadrifido, rotata, lacinia infima angustiore. *Caps.* supera, bilocularis.

Blossom *border* 4-*cleft*; *the lower ſegment narrowest.* Capsule 2-*celled*; *notched at the end.*

* Spicatæ.

1 *Flowers in spikes.*

V. spicis lateralibus pedunculatis, foliis oppositis scabris, caule procumbente. *officinalis.*

V. *ſpikes on lateral fruit ſtalks: leaves oppoſite: ſtem trailing.*

COMMON SPEEDWELL. MALE SPEEDWELL. FLUELLIN. On barren sandy ground, heaths, lanes, and moors; Coddington and Langford, near Newark; Edingley gravel-pits; Kirkby; Broxtow Woods.

P. May—August.

* * Corymboso-racemosæ.

2 *Flowers in a bunch like corymbus.*

serpyllifolia. V. racemo terminali subspicato, foliis ovatis subcrenatis trinerviis glabris, capsula obcordata stylo breviore.

V. *Bunch terminating, somewhat spike-like: leaves egg-shaped, smooth, scolloped, 3-fibred. Stamens hardly longer than the blossom.*

SMOOTH SPEEDWELL. PAUL'S BETONY. Meadows and pastures; not uncommon. Southwell, Newark. P. May, June.

Beccabunga. V. racemis lateralibus, foliis ellipticis planis, caule repente.

V. *Bunches lateral: leaves egg-shaped, flat: stem creeping.*

BROOKLIME. Slow shallow streams; and near springs that seldom freeze. Southwell; Newark. P. June, July.

Anagallis. V. racemis lateralibus oppositis, foliis lanceolatis serratis, caule erecto.

V. *Bunches lateral; leaves spear-shaped, serrated: stem upright.*

WATER SPEEDWELL. LONG-LEAVED BROOKLIME. Slow streams and shallow ponds; near the bridge on the road from Southwell to Upton; in Fiskerton lane; in a ditch near Bucklow's peppermint garden, at Southwell. P. June---August.

scutellata. V. racemis lateralibus alternis: pedicellis divaricatis, foliis linearibus denticulatis.

V. *Bunches lateral, thinly set with flowers,*

wide spreading, alternate: little fruit-stalks pendant: leaves very entire, strap-shaped.

NARROW LEAVED SPEEDWELL. MARSH SPEEDWELL. In low marshes, on poor boggy soils; Oxton Bottoms; in a low swampy close, by the road side, near Papplewick water-mill; on Edingley moors; Farnsfield carr; ditches on Coddington moor.
P. June---August.

V. racemis lateralibus, foliis ovatis sessilibus rugosis inciso-serratis, caule bifariam piloso. *Chamædrys.*

V. *Bunches lateral; leaves egg-shaped, sitting, wrinkled, toothed; stem with 2 opposite rows of hairs.*

WILD GERMANDER. GERMANDER SPEEDWELL Pastures and sides of hedges; dry banks: common. Southwell; Newark. P. May.

* * * Floribus solitariis.

3 *Fruit-stalks with one flower.*

V. floribus solitariis, foliis ovatis inciso serratis pedunculo brevioribus, caulibus procumbentibus, seminibus urceolatis. *agrestis.*

V. *Flowers solitary: leaves heart-shaped, on leaf stalks, shorter than the fruit-stalks.*

GERMANDER CHICKWEED. PROCUMBENT SPEEDWELL. Pastures and ploughed fields; common: Southwell; Newark. A. April.

V. Floribus solitariis, foliis ovatis inciso-serratis: floralibus lanceolatis pedunculo longioribus, caule erecto. *arvensis.*

V. *Spike terminating: leaves heart-shaped, sitting: floral leaves spear-shaped, longer than the flowers.*

WALL SPEEDWELL. SPEEDWELL CHICKWEED. On old walls; amongst rubbish and fallow fields: common. A. May.

hederæfolia. V. floribus solitariis, foliis cordatis planis quinquelobis, laciniis calycinis cordatis, seminibus urceolatis.

V. *Flowers solitary: leaves heart-shaped, flat, 5-lobed.*

SMALL HENBIT. IVY CHICKWEED. IVY LEAVED SPEEDWELL. Hedge banks, ploughed fields, and kitchen gardens: very common.

A. April---Sept

PINGUICULA. *Smith.* 26. *Withering.* 18.

Cor. ringens, calcarata. *Cal.* bilabiatus, quinquefidus. *Caps.* supera, unilocularis.

Bloss. *gaping, ending in a spur.* Cal. 2-*lipped*, 5-*cleft.* Capsule 1 *cell.*

vulgaris. P. nectario cylindraceo acuto longitudine petali, capsula ovata.

P. *Nectary cylindrical, as long as the petal.*

COMMON BUTTERWORT. YORKSHIRE SANICLE. On bogs, and low marshy grounds. In a close at Halam beck, near Southwell; on Edingley moors, Oxton stews, and Basford scottum. P. May, June.

UTRICULARIA. *Smith.* 28. *Withering.* 19.

Cor. ringens, calcarata. *Cal.* diphyllus, æqualis. *Caps.* supera, unilocularis.

Bloss. *gaping, ending in a spur.* Calyx 2 *leaves, equal.* Capsule 1 *cell.*

vulgaris. U. nectario conico, scapo paucifloro.

U. *Nectary conical; stalk with few flowers.*

HOODED WATER MILFOIL. GREATER BLADDER SNOUT. Wet ditches and stagnant waters. somewhat rare. In old gravel pits, near Kirklington Mill; and in the lake at Thurgarton Priory, the seat of J. G. Cooper, Esq.; at the bottom end of Muskham Fleet, near Newark. P. July.

U. nectario carinato brevissimo obtuso. *minor.*

U. *Nectary keel-shaped.*

LESSER BLADDER SNOUT. Ditches and muddy ponds. rare. Eddingley Moor. P. July.

LYCOPUS. *Smith.* 29. *Withering.* 20.

Cor. quadrifida: lacinia unica emarginata. *Stam.* distantia. *Sem.* quatuor, nuda, retusa.

Bloss. 4-*cleft*; 1 *segment notched at the end.* Stamens *distant:* Seeds 4, *blunt.*

L. foliis sinuato-serratis. *europæus.*

L. *Leaves indented, and serrated.*

WATER HOREHOUND. GYPSIE WORT. Sandy ground, and on banks of streams and ponds; ditches; banks of the Greet, at Southwell; ditches near the road from Newark to Kelham, and towards Averham meadow; Edingley Moor. P. July---Sept.

SALVIA. *Smith.* 30. *Withering.* 21.

Cor. inæqualis. *Filamenta* transverse pedicello affixa. *Sem.* quatuor, nuda.

Bloss. *gaping.* Filaments *fixed transversely to a little foot stalk.*

S. foliis serratis sinuatis læviusculis, corrollis calyce angustioribus. *verbenaca.*

S. *leaves indented, serrated, smoothish, blossom more slender than the calyx.*

WILD ENGLISH CLARY. MEADOW SAGE. Meadows and pastures, and hedge banks by road sides; about Nottingham Castle; hedge bottoms in Farndon lane, near the Spring House, Newark. P. June---Oct.

11 DIGYNIA.

ANTHOXANTHUM. *Smith.* 31. *With.* 58.

Cal. gluma bivulvis, uniflora, *Cor.* gluma bivulvis, aristata. *Semen* unicum.

Cal. *Huſk of* 2 *valves, and* 1 *flower.* Bloss. *huſk* 2 *valves, tapering to a point.* Seed 1.

odoratum. A. spica ovato-oblonga, flosculis subpedunculatis arista longioribus.

A: *Spike oblong-egg-ſhaped: florets longer than the awns, ſupported on ſhort fruit ſtalks.*

SWEET SCENTED VERNAL GRASS. SPRING GRASS. Meadows and pastures; common.

P. May, June.

Classis III.

TRIANDRIA.

Smith. 32. *Withering.* 60.

Stamina 3.

MONOGYNIA.

Stylus 1.

* Flores superi.

1 *Flowers superior.*

VALERIANA. *Cor.* quinquefida, basi gibba. *Sem.* 1.

VALERIANA. Bloss. *5-cleft; bulging at the base.* Seed 1.

CROCUS. *Cor.* sexpartita, æqualis. *Stigmata* convoluta.

CROCUS. Bloss. *resembling* 6 *petals, upright, open.* Summits *rolled in a spiral; coloured.*

IRIS. *Cor.* sexpartita, petalis alternis reflexis. *Stigmata* petaliformia.

IRIS. Bloss. *with* 6 *divisions*; 3 *outer segments reflected.* Summits *like petals.*

** Flores inferi, glumacei. Semen unicum.

2 *Flowers with valves like grasses, and husk-like calyxes. Hermaphrodite.*

SCHŒNUS. *Glumæ* paleaceæ, congestæ; exteriores steriles. *Sem.* subrotundum.

SCHŒNUS. Bloss. *none.* Cal. *chaffy ſcales, in bundles.* Seed *roundish*: (*lower ſcales barren.* SCOP.)

SCIRPUS. *Glumæ* paleaceæ, undique imbricatæ.

SCIRPUS. Bloss. *none.* Cal. *chaffy ſcales, tiled.* Seed *naked or woolly*: *3-cornered:* (*Hairs ſhorter than the Calyx.* HALLER. *All the ſcales fertile.* SCOP.)

ERIOPHORUM. *Glumæ* paleaceæ, undique imbricatæ. *Sem.* lana longissima cinctum.

ERIOPHORUM. Bloss. *none.* Cal. *chaffy ſcales, tiled.* Seeds *woolly.* (*Hairs longer than the calyx.* HAL.)

NARDUS. *Cal.* nullus. *Cor.* Gluma bivalvis.

NARDUS. Bloss. 2 *valves.* Cal. *none.* Seed *covered.*

DIGYNIA.

Styli 2.

* Calyces uniflori, vagi.

1 GRASSES. *Flowers ſcattered*; 1 *in each calyx.*

ALOPECURUS. *Cal.* bivalvis. *Cor.* univalvis, apice simplici.

ALOPECURUS. Cal. 2 *valves*: Bloss. 1 *valve, undivided at the end.* Nectary *none.*

PHLEUM. *Cal.* bivalvis, truncatus, acuminatus, sessilis.

PHLEUM. Cal. 2 *valves*; *lopped, dagger-pointed sitting.*

AGROSTIS. *Cal.* bivalvis; valvis acutis, corolla brevioribus. *Stigmata* plumosa.

AGROSTIS. Cal. 2 *valves: valves acute, ſhorter than the bloſſom: (in all the Engliſh ſpecies longer.)*

DACTYLIS. *Cal.* bivalvis, compressus; valva majori carinata.

DACTYLIS. Cal. 2 *valves: valves concave, keeled.*

* * Calyces biflori, vagi.

2 GRASSES. *Flowers ſcattered*; 2 *in each calyx.*

AIRA. *Cal.* bivalvis. *Flosculi* absqué rudimento interjecto.

AIRA. Florets, *all hermaphrodite, without the rudiment of a third.* Cal. 2 *valves.*

MELICA. *Cal.* bivalvis, sub-biflorus; rudimento tertii flosculi interjecto.

MELICA. Florets, *all hermaphrodite.* Cal. 2 *valves.* Nectary *of* 1 *leaf, fleſhy.*

HOLCUS. *Cal.* bivalvis. *Cor.* aristata. *Flosculo* altero masculo, apetalo.

HOLCUS. Flowers *hermaphrodite and male.* Cal. *huſk* 2 *valves, with* 1 *to* 3 *florets.*

M. Bloss. *awned.*

F. Bloss. *awnleſs* 1. Seed 1.

* * * Calyces multiflori, vagi.

GRASSES. *Flowers ſcattered, ſeveral in each calyx.*

BRIZA. *Cal.* bivalvis. *Cor.* ventricosa, valvis cordatis, obtusis. *Semen* corollæ adnatum.

BRIZA. Cal. 2 *valves.* Bloss. *heart-ſhaped, valves blunt, bellying.*

POA. *Cal.* bivalvis. *Cor.* valvis ovatis, acutiusculis, muticis.

POA. Cal. 2 *valves.* Bloss. *egg-ſhaped, valves ſharpiſh.*

FESTUCA. *Cal.* bivalvis. *Spicula* oblonga, teretiuscula; glumis acuminatis.

FESTUCA. Cal. 2 *valves.* Bloss. *oblong: valves ſharp-pointed.*

BROMUS. *Cal.* bivalvis. *Spicula* oblonga; glumis sub apice aristatis, interiore ciliata.

BROMUS. Cal. 2 *valves.* Bloss. *oblong; outer valve with an awn fixed below the point.*

AVENA. *Cal.* bivalvis. *Cor.* gluma teretiuscula, dorso aristata. *Ariſta* contorta.

AVENA. Cal. 2 *valves.* Bloss. *oblong; valves with a jointed awn upon the back.*

ARUNDO. *Cal.* bivalvis. *Flosculi* lana persistente cincti.

ARUNDO. Cal. 2 *valves.* Bloss. *awnless, woolly at the baſe.*

* * * * Spicati, receptaculo communi scrobiculato.

4. GRASSES. *Flowers forming a ſpike, on a long and ſlender receptacle.*

LOLIUM. *Cal.* monophyllus, fixus, multiflorus.

LOLIUM. Involucrum 1 *leaf, containing* 1 *many-flowered ſpiket.*

TRITICUM. *Cal.* bivalvis, solitarius, multiflorus. *Rachis* dentata.

TRITICUM. Cal. *containing many florets.*

CYNOSURUS. *Cal.* bivalvis, solitarius, multiflorus. *Receptaculum proprium* unilaterale, foliaceum.

CYNOSURUS. Cal. 2 *valves, containing many flowers.* Valves *strap-shaped, tapering to a point, equal.* Nectary *of* 2 *leaves.*

HORDEUM. *Cal.* bivalvis, ternus, uniflorus.

HORDEUM. Involucrum *of* 6 *leaves, containing* 3 *florets.* Flowers *simple.*

TRIGYNIA.

Styli 3.

MONTIA. *Cal.* diphyllus. *Cor.* monopetala. *Caps.* trivalvis, trisperma.

MONTIA. Bloss. 1 *petal.* Cal. 2 *leaves.*

111 TRIANDRIA.

1 MONOGYNIA.

VALERIANA. *Smith* 37. *Withering.* 65.

Cal. nullus. *Cor.* monopetala, basi hinc gibba, supera. *Semen* 1.

Cal. *none.* Bloss. 1 *petal, superior, ; bulging on one side at the base.* Seed 1, *or else a* 3*-celled capsule.*

dioica. V. floribus triandris dioicis, foliis radicalibus ovatis; caulinis pinnatis.

V. *Stameniferous, and piſtilliferous flowers on different plants; leaves winged; leafits very entire: (somewhat serrated.) Stameniferous plants; with imperfect piſtils.*

SMALL, or MARSH VALERIAN. In moist meadows and marshes; not uncommon. Parks at Southwell; Oxton Bottoms; Basford Scottum. P. May, June.

officinalis: V. floribus triandris, foliis omnibus pinnatis: foliolis lanceolatis subuniformibus.

V. *Leaves all winged and toothed.*

GREAT WILD VALERIAN. Hedges, woods, and marshes: common. Parks at Southwell; Halam Bottoms; Edingley Hill. P. June.

Locuſta. V. floribus triandris, caule dichotomo, foliis lineari-lingulatis obtusis.

V. *Stem forked; leaves ſtrap-shaped, very entire.*

CORN SALLAD. LAMB'S LETTUCE. Banks and corn fields. Southwell; Newark; Mansfield; Nottingham. A. April.

CROCUS. *Smith.* 39. *Withering.* 69.

Cor. sexpartita, æqualis, supera, tubo longissimo. *Stigmata* convoluta, erosa. *Spatha* univalvis, radicalis.

Bloss. *with* 6 *equal divisions.* Summits *coiled.*

vernus C. stigmate incluso trifido: lobis cuneiformibus incisis.

C. *Sheath of one leaf radical; tube of the corolla very long: stigma, in three ſhort wedge-ſhaped lobes, within the flower.* ENGLISH BOTANY. 344.

SPRING, or GARDEN CROCUS. In meadows: very rare. In Nottingham Meadows; plentifully. In the FLORA BRITTANNICA, Dr. SMITH acknowledges his having received this plant from Mrs. SHERBROOKE, of Oxton. P. April.

C. stigmate incluso trifido: lobis multifido-laciniatis penicilliformibus, flore aphyllo. *nudiflorus.*

C. *Sheath of one leaf, radical: tube of the corolla very long, leafless; stigma, in three deeply laciniated segments, enclosed within the flower.* ENGLISH BOTANY. 491.

NAKED FLOWERED CROCUS. In meadows; very rare. Between Nottingham Castle and the Trent. The Rev. J. T. BECHER, of SOUTHWELL, ascertained this plant to be a distinct species, and it was immediately admitted as such by Dr. SMITH. The fact, however, has since been indisputably confirmed by Mr. ORDOYNO, of CODDINGTON, who has raised both this and the preceding species from seeds. For more than a century these beautiful plants have enamelled the Nottingham Meadows; and the COLCHICUM COMMUNE, of Deering, proves, according to Mr. BECHER's suggestion, to be our CROCUS NUDIFLORUS. P. Oct.

IRIS. *Smith.* 41. *Withering.* 69.

Cor. sexpartita, supera; petalis alternis reflexis. *Stigmata* petaliformia.

Bloss. *with* 6 *divisions, unequal, every other segment bent back as if jointed.* Summits *petal-like, 2-lipped, edges at the base turned in:*

I. corollis imberbibus: petalis interioribus stigmate minoribus, foliis ensiformibus. *Pseudacorus.*

I. *Every other segment of the blossom smaller than the summit.*

YELLOW IRIS. WATER FLOWER DE LUCE. Banks of rivers; marshes and wet meadows. Averham Meadow; Newark; Osmanthorpe; Southwell; Basford Scottum; Nottingham Meadow. P. July.

SCHŒNUS. *Smith.* 42. *Withering.* 79.

Glumæ paleaceæ, congestæ, exteriores steriles. *Cor.* nulla. *Semen* unicum, subrotundum, inter glumas.

Husks *chaff-like, of* 1 *valve, crowded.* Bloss. *none.* Seed 1; *roundiſh, within the huſks.*

nigricans. S. culmo tereti nudo, capitulo ovato, involucri diphylli valvula altera subulata longiore,

S. *Straw cylindrical, naked: ſpike an egg-ſhaped head: involucrum two-leaved,* 1 *valve, awl-ſhaped, long.*

BLACK BOG RUSH. Bogs and marshes. Edingley Moors. P. June.

compressus. S. culmo teretiusculo nudo, spica disticha involucro monophyllo breviore; spiculis multifloris, foliis planis.

S. *Straw roundiſh, but tending to* 3*-cornered: naked: ſpikets in* 2 *oppoſite rows. Involucrum* 1 *leaf: florets with* 1 *husk.*

COMPRESSED BOG RUSH. Turf bogs; not common. In the Parks at Southwell. P. July.

SCIRPUS. *Smith.* 48. *Withering.* 73.

Glumæ paleaceæ, undique imbricatæ. *Cor.* nulla. *Semen* unicum.

Husk *chaff-like, tiled on every ſide.* Bloss. *none.* Seed 1, 3*-cornered, often woolly.* Hairs *ſhorter than the ſpike.*

* Spica unica.

1 *Spike ſingle.*

S. culmo tereti basi vaginato, spica subovali terminali, glumis acutis, radice repente. *paluſtris*

S. *Straw cylindrical, naked: ſpike nearly egg-ſhaped, terminating.*

MARSH CREEPING CLUB RUSH. Banks of rivers and ditches; frequent. Edingley Moors; Oxton Bottoms. P. July.

* * Culmo tereti polystachyo.

2 *Spikes ſeveral: ſtraw cylindrical.*

S. culmo tereti nudo, panicula cymosa decomposita terminali, spiculis ovatis. *lacuſtris.*

S. *Straw cylindrical, naked: ſpikes ſeveral, egg ſhaped, on fruit ſtalks, terminating.* LINN. Calyx *fringed, 3-cleft: middle ſegment awl-ſhaped.*

BULL RUSH. Rivers, pools, fens. Banks of the Trent. P. July, August.

ERIOPHORUM. *Smith.* 58. *Withering.* 71.

Glumæ paleaceæ, undiquæ imbricatæ. *Cor.* nulla. *Semen* unicum, lana longissima cinctum.

Husks *like chaff, tiled on every ſide.* Bloss. *none.* Seeds *encompaſſed by very long wool, like hairs.*

E. culmis teretibus, foliis canaliculatis apice triquetris, spicis pedunculatis. *angustifolium.*

E. *Straw cylindrical: leaves channelled and 3-cornered: ſpikes on fruit-ſtalks.*

COTTON GRASS. MOOR GRASS. Marshes and bogs; not uncommon. Oxton Bottoms; Farnsfield Carr; Edingley Moors; Marshes about Mansfield; Gamston Moors; Basford Scottum. P. June.

NARDUS. *Smith.* 61. *With.* 71.

Calyx nullus. *Cor.* gluma bivalvis.

Calyx *none.* Bloss. 2 *valves.* Nectary *none.*

ſtricta. N. spica setacea recta secunda.

N. *Spike ſlender, ſtraight; the florets pointing in one direction.*

MAT. GRASS. Heaths and Marshes. Sherwood Forest near Mansfield; Edingley Moor; not common. P. June---August.

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11 DIGYNIA.

PHLEUM. *Smith.* 68. *With.* 117.

Cal. bivalvis, truncatus, acuminatus, sessilis, uniflorus, corollam includens.

Cal. 2-*valved, ſitting, ſtrap ſhaped, lopped, ending in* 2 *dagger points, incloſing the bloſſom.*

pratense. P. spica cylindrica longissima, glumis dorso ciliatis arista longioribus.

P. *Spike cylindrical, very long: calyx fringed, and awned: ſtraw upright.*

COMMON CAT'S-TAIL. TIMOTHY GRASS. Pastures; common.

ALOPECURUS. *Smith.* 72. *Withering.* 119.
Cal. bivalvis uniflorus. *Cor.* univalvis,.

Cal. 2-*valved.* Bloss. 1 *valve.* Nectary *none.*

A. culmo erecto lævi, spica sublobata, glumis calycinis villosis basi connatis. *pratensis.*

A. *Spiked ſtraw, upright: calyx hairy; bloſſom awned.*

MEADOW FOXTAIL. FOXTAIL GRASS. Meadows and pastures: common. P. May.

A. culmo erecto scabriusculo, spica simplicissima attenuata, glumis nudiusculis basi connatis carina dilatatis. *agreſtis*

A. *Spiked ſtraw upright: calyx not hairy; its huſks united at the base.*

SLENDER FOX TAIL GRASS. Cornfields and road sides. P. May.

A. culmo adscendente geniculato, spica sublobata cylindrica, glumis retusis pilosis. *geniculatus.*

A. *Spiked ſtraw knee-jointed.*

FLOATING FOX TAIL GRASS. Marshy meadows; common. P. August.

AGROSTIS. *Smith.* 77. *With.* 124.

Cal. bivalvis, uniflorus: valvulis acutis. *Cor.* bivalvis, inæqualis, calyce major. *Stigmata* plumosa.

Calyx 1-*flowered,* 2-*valved, ſpear-ſhaped, acute, generally rough on the keel: longer than the bloſſom.* Bloss. 2 *valves.* Summits *hairy.*

* Aristatæ.

1. *With awns.*

canina. A. calycibus ovatis coloratis, corolla nuda: arista dorsali incurva, culmis prostratis subramosis.

A. Calyx *valves nearly equal.* Blossom *valves very unequal: awn jointed, twice the length of the bloſſom, fixed juſt below its middle.*

BROWN BENT GRASS. Meadows and moist pastures. A. June.

* * Muticæ.

2. *Without awns:*

vulgaris. A. panicula patente: ramulis divaricatis capillaribus, calycibus æqualibus, petalo interiore duplo breviore retuso.

A. *Panicle ſpreading, branches bare at the baſe: florets numerous: calyx inner valve ſmooth; outer ſerrulated upwards: blossom inner valve but half the ſize of the outer; deciduous.*

FINE BENT GRASS. Meadows, pastures and field sides; common. Oxton road side. P. July.

ſtoloniſera. A. panicula coarctata, culmo ramoso repente, floribus congestis, calycibus æqualibus lanceolatis pubescentibus.

A. *Panicle compact, branches ſtiff, ſhort, denſely crowded with florets at the baſe: calyx inner valve ſmooth, outer only ſerrulated upwards.*

CREEPING BENT GRASS. Moist meadows and pastures. P. July, August.

A. panicula laxa, culmo repente, calycibus æqualibus lanceolatis nitidis carina scabris. *alba.*

A. *Panicle large, ſpreading: calyx, both valves ſerrulated: ſtraw trailing.*

MARSH BENT-GRASS. Wet ditches, bogs, and marshes. P. July.

AIRA. *Smith.* 83. *With.* 135.

Cal. bivalvis, biflorus. *Cor.* bivalvis. *Flosculi* absque interjecto rudimento.

Cal. 2 *valves*; 2-*flowered*: *without any intervening ſubſtance between the florets.*

* Muticæ.

1 *Florets awnleſs.*

A. panicula patente, floribus muticis lævibus obtusis calyce longioribus, foliis planis. *aquatica*

A. *Panicle expanding: florets without awns, ſmooth, longer than the calyx; leaves flat.*

WATER HAIR-GRASS. Margins of pools and rivers. Ditches in Nottingham Meadow; Edingley Moor. P. June.

* * Aristatæ.

2 *Florets awned.*

A. foliis planis, panicula patente, petalis aristatis basi villosis: arista recta brevi. *cæspitosa.*

A. *Leaves flat: panicle expanding: petals woolly and awned at the baſe: awn ſtraight, ſhort.*

TURFY HAIR-GRASS. In moist meadows and woods; frequent. P. June, July.

flexuosa. A. foliis setaceis, culmo subnudo, panicula patente trichotoma, pedunculis flexuosis, aristas geniculatis.

A. *Leaves like briſtles: ſtraws almoſt naked: panicles diverging: fruit-ſtalks zig-zag.*

WAVED MOUNTAIN HAIR-GRASS. Heaths and woods; Mansfield Forest. P. July.

præcox. A. foliis setaceis: vaginis angulatis, floribus paniculato-spicatis, flosculis sessilibus basi nudis dorso aristatis.

A. *Leaves like briſtles: ſheaths ſmooth, angular with furrows; panicle ſpike-like: awn taller than the calyx.*

EARLY HAIR-GRASS. Dry commons. Blidworth Forest. A. May, June.

caryophyllea. A. foliis setaceis, panicula trichotoma divaricata, flosculis sessilibus, arista geniculata dorsali.

A. *Leaves like briſtles: ſheathes ſmoothish, furrowed: panicle wide-ſpreading when ripe; awns taller than the calyx.*

SILVER HAIR-GRASS. Sandy pastures. A. July.

HOLCUS. *Smith.* 88. *With.* 134.

Cal. bivalvis, biflorus: flosculo altero masculino. *Cor.* bivalvis; exteriori aristata.

Florets hermaphrodite and male. Cal. *huſk* 2 *valves, with* 1 *to* 3 *florets.*

HERMAPHR. Awn *twice the length of the bloſſom.*

MALE. Awn *as long as the bloſſom.*

anatus. H. glumis villosis, flosculo hermaphroditico mutico, masculo arista arcuato-recurva.

H. *Huſks 2-flowered, woolly; hermaphrodite floret awnless: male floret with a bent awn, incloſed in the calyx.*

MEADOW SOFT-GRASS. Meadows and pastures; common. P. June, July.

H. glumis subæqualibus nudiusculis, flosculo hermaphroditico inferiore mutico, masculo arista geniculata, radice repente. *mollis.*

H. *Roots creeping; joints woolly: awn protruding out of the calyx. Curt.*

CREEPING SOFT-GRASS. Corn fields and woods. P. July, August.

H. glumis inæqualibus glabris, flosculo hermaphroditico superiore submutico, masculo arista geniculata refracta, radice nodosa. *avenaceus.*

H. *Panicled: calyx 2-flowered: male floret awned: hermaphrodite flower ſometimes awnleſs.*

Avena elatior. *Sp. Pl.* 117. *With.* 163.

OAT-LIKE SOFT-GRASS. Meadows, pastures, and road sides. P. June, July.

MELICA. *Smith.* 91. *Withering.* 138.

Cal. bivalvis, sub-biflorus: rudimentum tertii floris inter flosculos. *Cor.* bivalvis.

Cal. *2-valved, 2-flowered, with a little ſubſtance, on a pedicle, betwixt the florets.* Nectary 1 *leaf.* Stamens *dilated at the baſe.*

M. petalis imberbibus, panicula secunda ramosa, floribus erectis, calyce unifloro. *uniflora.*

M. *Panicle thinly ſet: calyx with 2 florets, one hermaphrodite, the other neutral.*

WOOD MELIC-GRASS. Woods and hedges. Combes Wood; Eperstone Thickets; borders of Broxtow Woods. P. May, June.

cærulea. M. petalis acutis imberbibus, panicula coarctata, floribus erectis cylindricis.

M. *Panicle compact: flowers cylindrical; straw without knots.*

Aira cærulea. LINN.

PURPLE MELIC-GRASS. Boggy meadows. Edingley Moors. P. August.

POA. *Smith.* 95. *Withering.* 140.

Cal. bivalvis. multiflorus. *Spicula* basi rotundata. *Cor* bivalvis, valvulis ovatis, acutiusculis, muticis.

Cal. 2-*valved, many-flowered.* Spikets *egg-shaped.* Valves *skinny at the edge, rather acute.*

aquatica. P. panicula erecta ramosa laxa, spiculis sexfloris linearibus, flosculis obtusis septemnerviis.

P. Panicle spreading: spikets strap-shaped, 6-flowered.

REED MEADOW-GRASS. Marshes and banks of rivers. P. July.

fluitans. P. panicula ramosa divaricata, spiculis adpressis teretibus multifloris, flosculis obtusis septemnerviis basi duplicato-nervosis.

P. *Panicle branched, upright: spikets nearly sitting; cylindrical, awnless.*

Festuca fluitans. *With.* 156.

FLOTE MEADOW-GRASS. Wet ditches and ponds. P. June.

P. panicula lanceolata disticho-secunda co- *rigida.*
arctata glabra; rachi marginata, spiculis
septemfloris, flosculis teretibus enervibus.

P. *Panicle ſpear-ſhaped, ſomewhat branched: branches alternate, pointing one way: fruit-ſtalk bordered.*

HARD MEADOW-GRASS. Stony places and walls. Nottingham Castle; Bulwell Lime-kilns. A. June.

P. panicula secunda coarctata, culmo adscen- *com-*
dente compresso, flosculis angulosis basi *pressa.*
villo complicato connexis.

P. *Panicle compact: ſtraw ſlanting, compressed.*

FLAT-STALKED MEADOW-GRASS. Walls, house tops, and dry places. Southwell Parks. P. July, Aug.

P. panicula diffusa, spiculis trifloris, glumis *trivia-*
lanceolatis, quinquenervibus basi villo con- *lis-*
nexis, stipula elongata.

P. *Panicle ſpreading; ſpikets 3-flowered, woolly at the baſe: ſtraw upright rough: ſheath-ſcale tapering to a point.* Curt.

ROUGHISH MEADOW-GRASS. Moist meadows and pastures; very common. P. June---Sept.

P. panicula diffusa, spiculis quadrifloris, glu- *praten-*
mis lanceolatis quinquenervibus villo con- *sis.*
nexis, stipula abbreviata obtusa.

P. *Panicle ſpreading; ſpikets 5-flowered, ſmooth: ſtraw cylindrical, upright.* LINN. *Sheath-ſcale ſhort and blunt.* Curt.

SMOOTH-STALKED MEADOW-GRASS. Meadows, pastures and banks; very common

annua. P. panicula divaricata, ſpiculis ovatis, floſculis remotiuſculis quinquenervibus liberis, culmo obliquo compreſſo.

P. *Panicle ſpreading horizontally; branches in pairs: ſpikets moſtly* 4 *flowered: leaves flat: ſheathes ſmooth.*

ANNUAL MEADOW-GRASS. Meadows, pastures and gardens. A. April---Sept.

BRIZA. *Smith.* 108. *With.* 148.

Cal. bivalvis, multiflorus. *Spicula* diſticha: *Cor.* bivalvis, ventricoſa, valvulis cordatis obtuſis. *Semen* corrollæ adnatum, depreſſum.

Cal. 2-*valved, many-flowered.* Spiket 2-*rowed.* Valves *heart-ſhaped, blunt: the inner minute.*

media. B. ſpiculis ovatis ſeptemfloris, calyce floſculis breviore, ſtipula breviſſima obtuſa.

B. *Spikets egg-ſhaped: calyx ſhorter than the florets.*

COMMON QUAKING-GRASS. Meadows and pastures; frequent. P. July.

DACTYLIS. *Smith.* 110. *With.* 149.

Cal. bivalvis, compreſſus; altera valvula majore, carinata.

Cal. 2-*valved, many-flowred; valves broader on one ſide.* Bloss. 2 *valves, inclosing the ſeed.* Nectaries 2.

glomerata. D. panicula ſecunda ſupradecompoſita glomerata.

D. *Panicle crowded, pointing one way.*

ROUGH COCK'S-FOOT-GRASS. Meadows; common.
P. June----August.

CYNOSURUS. *Smith.* 111. *With.* 150.

Cal. bivalvis, multiflorus. *Recept. proprium* unilaterale, foliaceum.

Cal. *2-valved, many-flowered, equal.* Bloss. *2-valved, 1 valve concave, longer.* Nectary *2-leaved.*

C. bracteis pinnato-distichis muticis, spica simplici lineari. *cristatus*

C. *Floral leaves, with winged clefts.*

CRESTED DOG'S-TAIL-GRASS. Pastures; common.
P. June, July.

FESTUCA. *Smith.* 113. *With.* 151.

Cal. bivalvis. *Spicula* oblonga, teretiuscula, disticha; glumis acuminatis.

Cal; *2-valved.* Spikets *oblong, roundish.* Husks *tapering to a point, or terminating in an awn.*

F. panicula secunda coarctata, flosculis tereti- *ovina:*
usculis basi glabris, culmo tetragono, foliis setaceis scabris.

F. *Panicle compact, awned: straw 4-cornered, almost naked: leaves bristle-shaped.*

SHEEP'S FESCUE-GRASS. Dry barren pastures; not uncommon. P. June.

F. panicula secunda diffusa, flosculis aristatis, *durius-*
culmo tereti, foliis caulinis planis, radice *cula.*
fibrosa.

F. *Panicle oblong: ſpikets oblong, ſmooth: leaves briſtle-ſhaped.*

HARD FESCUE-GRASS. Dry places. P. June.

bromoides. F. panicula secunda erecta, flosculis subulatis aristatis apice scabris, foliis setaceis vagina brevioribus.

F. *Spikets upright; ſmooth: calyx valves, 1 entire, the other tapering to an awn-like point.*

BARREN FESCUE-GRASS. On walls and sandy places. A. June.

myurus. F. panicula secunda nutante elongata, flosculis subulatis aristatis apice scabris, foliis setaceo-subcarinatis brevissimis.

F. *Panicle ſpike-like, drooping: calyx ſmaller valve very minute: florets rough, awns very long.*

WALL FESCUE-GRASS. Walls and dry barren places. A. May, June.

gigantea. F. paniculâ secunda nutante ramosa laxa, flosculis lanceolatis ventricosis aristatis, foliis ensiformibus nervosis.

F. *Panicle drooping; ſpikets 4-flowered, ſhorter than the awns.*

Bromus giganteus. *With.* 162.

TALL FESCUE-GRASS. In woods and moist hedges. Eperstone Wood. P. July, Aug.

loliacea. F. spica disticha nutante, spiculis subsessilibus lineari-oblongis, flosculis cylindricis enervibus muticis.

F. *ſpiked*: *ſpikets alternate, ſitting, compreſſed, awnless.*

SPIKED FESCUE-GRASS. Moist meadows; not very common. Southwell. P. June, July.

F. panicula secunda erectiuscula laxa, spiculis linearibus compressis obtusiusculis, floſculis cylindricis obsolete nervosis. *pratenſis.*

F. *Panicle upright: ſpikets ſcarcely awned; the outer ones cylindrical.*

Festuca elatior. *With.* 155. *Var.* 2.

MEADOW FESCUE-GRASS. In meadows and moist pastures. P. June, July.

F. panicula subdiffusa nutante ramosissima laxa, spiculis ovato-lanceolatis acutis, floſculis cylindricis obsolete nervosis. *elatior.*

F. *Panicle upright: ſpikets ſcarcely awned: the outer ones cylindrical.*

TALL FESCUE-GRASS. Boggy meadows, and sides of wet ditches. P. June, July.

BROMUS. *Smith.* 125. *With.* 159.

Cal. bivalvis. *Spicula* oblonga, disticha. *Ariſta* infra apicem. *Gluma* interior pectinato-ciliata.

Calyx 2-*valved.* Spikets *oblong, cylindrical,* 2-*rowed.* Awn *beneath the point.*

B. panicula patente; pedunculis subsimplicibus, spiculis ovatis compressis decemfloris, floſculis distinctis teretiusculis. *secalinus.*

B. *Panicle expanding, huſks naked; ſeeds diſtinct; awns ſhorter than the blaſſom, not quite ſtraight.*

SMOOTH RYE BROME-GRASS. Meadows and pastures; not common. Southwell. A. July.

mollis. B. panicula erecta coarctata; pedunculis ramosis, spiculis ovatis, flosculis imbricatis depressis nervosis pubescentibus.

B. *Panicle rather upright; leaves very ſoft and woolly: awn about the length of the bloſſom.*

SOFT BROME-GRASS. Cornfields, pastures and hedge banks. B. June.

aſper. B, panicula nutante ramosa, flosculis lanceolatis teretiusculis subenervibus, foliis uniformibus: inferioribus hirsutis.

B. *Panicle drooping, rough; ſpikets hairy, awned: leaves rough.* LINN. *Spikets ſlender, 10-flowered: ſheaths of the leaves hairy.* Curt.

HAIRY WOOD BROME-GRASS. Moist woods and hedges. Eperstone Wood. A. or B. July.

ſterilis. B. panicula nutante subsimplici, flosculis lanceolatis nervosis sulcatis, foliis pubescentibus.

B. *Panicle ſpreading; ſpikets oblong: florets 2-rowed; calyx taper-pointed.* LINN. *Awns very long.*

BARREN BROME-GRASS. Woods and hedges; frequent. A. June, July.

ſylvaticus. B. spica simplici nutante secunda, spiculis sessilibus teretiusculis, aristis gluma longioribus, foliis pilosis.

B. *Spikets ſitting; ſtraw undivided: awns as long as the bloſſom.*

Festuca sylvatica. *With.* 158.

SLENDER WOOD BROME-GRASS. Woods and hedges. Kirklington. P. July.

AVENA. *Smith.* 139. *Withering.* 163.

Cal. bivalvis, multiflorus. *Cor.* valvula exterior dorso aristata; arista contorta.

Calyx 2-*valved*; *many-flowered.* Awn *from the back of the bloſſom, twiſted.*

A. paniculata, calicibus subtrifloris, flosculis basi pilosis omnibusque aristatis enervibus. *fatua.*

A. *Panicled: calyx 3-flowered, all the florets awned, and hairy at the baſe.*

WILD OAT. HAVER. Cornfields. Southwell. A August.

A. panicula erecta subsimplici, calycibus subtrifloris, receptaculis barbatis, foliis planis pubescentibus. *pubescens*

A. *Panicle ſpike-like; calyx 3-flowered; bloſſoms bearded at the baſe: leaves flat, downy.*

DOWNY OAT-GRASS. Chalky meadows and pastures. P. June.

A. spica erecta, calycibus subquinquefloris, receptaculis pilosis involutis serrulatis nudis. *pratensis.*

A. *Panicle ſpike-like: calyx 5-flowered.*

NARROW-LEAVED OAT-GRASS. Chalky meadows and pastures. Bulwell. P. July.

A. panicula ramosissima laxa, calycibus subtrifloris inæqualibus, receptaculis pilosis, foliis planis subpubescentibus. *flavescens*

A, *Panicle looſe: calyx 3-flowered, ſhort: all the florets awned.*

YELLOW OAT-GRASS. Meadows and paſtures. P. June, July.

ARUNDO. *Smith.* 145. *Withering.* 166.

Cal. bivalvis. *Flosculi* lana persistente cincti.

Cal. *2-valved*: Bloss. *awnleſs, ſurrounded with down at the baſe.*

Phragmites. A. calycibus quinquefloris, panicula laxa.

A. *Calyx 5-flowered*: *panicle ſpreading.*

COMMON REED. Rivers, lakes and ditches. P. July.

Calamagroſtis. A. calycibus unifloris corolla longioribus, panicula erecta diffusa, floribus sparsis erectis foliis linearibus.

A. *Panicle ſtiff and straight*: *bloſſoms ſmall, hairy at the baſe*; *leaves flat.*
Calamagrostis Epigejos. *With.* 123.

SMALL REED. Moist woods and hedges. By the side of a bridle road, leading from Radley near Southwell, to Eperstone Woods. P. July.

LOLIUM. *Smith.* 148. *With.* 167.

Cal. monophyllus, fixus, multiflorus. *Flosculi* distichi.

Cal. 1 *leaf, fixed, many flowered.* Spikets *alternate.*

perenne. L. spica mutica; spiculis calyce longioribus flosculis lanceolatis.

L. *Spike awnless*: *ſpikets compressed, many-flowered, longer than the calyx.*

PERENNIAL DARNEL. RED DARNEL. RAY-GRASS. Meadows, pastures, and road sides; frequent. P. June.

L. spica aristata, spiculis calyce brevioribus, flosculis ellipticis, culmo superne scabro. *temulentum.*

L. *Spikets awned, compressed, many-flowered; not longer than the calyx: straw rough.*

BEARDED DARNEL. Ploughed lands. Southwell. A. July.

HORDEUM. *Smith.* 155. *Withering.* 170.

Cal. lateralis, bivalvis, ternus, uniflorus.

Cal. *lateral, 2-valved, 1-flowered; 3 together.*

H. flosculis lateralibus masculis aristatis, glumis calycinis intermediis lanceolatis ciliatis. *murinum.*

H. *Lateral florets male; awned, smooth on the keel; involucrum of the intermediate florets fringed.*

WALL BARLEY. MOUSE BARLEY. WAY BENNET. Walls and road sides: common. A. April---August.

H. flosculis lateralibus masculis brevius aristatis, glumis calycinis omnibus setaceis scabris. *pratense.*

H. *Lateral florets male, awnless: involucrum briſtle-shaped, rough.*

MEADOW BARLEY. Moist meadows and pastures. P. June.

TRITICUM. *Smith.* 158. *With.* 172.

Cal. bivalvis, solitarius, multiflorus, in rachi flexuosa, dentata.

Cal. *2-valved, solitary, mostly 3-flowered.* Florets *bluntish*

repens: T. calycibus subulatis, multinervibus, quinquefloris, flosculis acuminatis, foliis planis, radice repente.

T. *Calyx 4-flowered, awl-shaped, tapering to a point: leaves flat.*

CREEPING WHEAT-GRASS. COUCH-GRASS.
Hedges; very common. P. June.

caninum. T. calycibus acuminatis subquinquenervibus quadrifloris, flosculis aristatis, foliis planis, radice fibrosa.

T. *Calyx pointed, mostly 4-flowered: awns longer than the blossom: spikets upright.*

FIBROUS, OR BEARDED WHEAT-GRASS.
Woods and hedges, in a chalky soil. Southwell.
P. July.

III TRIGYNIA.

MONTIA. *Smith.* 161. *With.* 175.

Cal. diphyllus. *Cor.* monopetala, irregularis. *Caps.* unilocularis, trivalvis, trisperma.

Calyx 2 *leaves*. Bloss. 1 *petal, irregular*. Caps. 1-*celled*, 2-*valved*.

fontana. MONTIA.

CHICKWEED. BLINKS. Springs and watery places.
Coddington Moors; Oxton Bottoms; Edingley Moors.
A. April, May.

Classis IV.

TETRANDRIA.

Smith. 165. *Withering.* 178.

Stamina 4.

MONOGYNIA.

Stylus 1.

* Fl. monopetali, monospermi, superi.

1 *Flowers of* 1 *petal and* 1 *seed*; *superior*: INCORPORATED.

DIPSACUS. *Cal. communis* polyphyllus, foliaceus; *proprius* superus. *Pappus* cyathiformis.

DIPSACUS. Cal. *common, leafy.* Receptacle *conical*; *chaffy.* Seeds *like little pillars.*

SCABIOSA. *Cal. communis* polyphyllus; *proprius* superus, duplex.

SCABIOSA. Cal. *common, of many leaves.* Receptacle *convex, somewhat chaffy.* Seeds *crowned, rolled in a cover.*

SANGUISORBA. *Cal.* uniflorus, inferus. *Cor.* supera.

SANGUISORBA. Bloss. *flat.* Cal. 2-*leaves.* Caps. 4-*corned, between the cup and the bloſſom.*

* * Fl. monopetali, dispermi, superi.

2 *Flowers of* 1 *petal; superior; and* 2 *berries.* STARRY.

GALIUM. *Cor.* plana. *Fructus* siccus.

GALIUM. Bloss. *flat.* Fruit *nearly globular.* Florets *all hermaphrodite.*

ASPERULA. *Cor.* tubulosa. *Fructus* muticus.

ASPERULA. Bloss. *tubular.* Fruit *nearly globular.*

SHERARDIA. *Cor.* tubulosa. *Fructus* coronatus. *Sem.* tridentata.

SHERARDIA. Bloss. *tubular.* Fruit *crowned.* Seeds *with* 3 *teeth.*

* * * Fl. monopetali, polyspermi, inferi.

3 *Flowers of* 1 *petal; beneath the germen.*

PLANTAGO. *Cor.* refracta. *Caps.* bilocularis, circumscissa.

PLANTAGO. Bloss. *bent back as if broken.* Cal. *with* 4 *divisions.* Caps. 2 *cells; cut round.*

* * * * Fl. tetrapetali.

4 *Flowers of* 4 *petals; above the germen.*

CORNUS. *Nectaria* nulla. *Drupa* infera, bilocularis.

CORNUS. Cal. 4-*toothed; deciduous.* Drupa *a nut with* 2 *cells.*

* * * * * Fl. apetali.

5 *Flowers incomplete, beneath the germen.*

PARIETARIA. *Cal.* quadrifidus. *Semen* calyce tectum.

PARIETARIA. *Flowers hermaphrodite, and female.* Cal. 4-*cleft.* Seed 1 ; *elongated.*

ALCHEMILLA. *Cal.* octofidus. *Semen* nudum.

ALCHEMILLA. Cup. *with* 8 *clefts.* Seed 1 ; *inclosed in the cup.*

TETRAGYNIA.

Styli 4.

ILEX. *Cor.* monopetala. *Bacca* tetrasperma.

ILEX. Bloss. 1 *petal.* Cal. 4-*toothed.* Berry *with* 4 *seeds.*

SAGINA. *Pet.* 4. *Caps.* unilocularis.

SAGINA. Bloss. 4 *petals.* Cal. 4 *leaves.* Caps. *with* 4 *cells, and many seeds.*

RADIOLA. *Pet.* 4. *Cal.* multifidus. *Caps.* octolocularis, octovalvis.

RADIOLA. Bloss. 4 *petals.* Cal. *many-cleft:* Caps. *with* 8 *cells, and* 8 *valves.*

POTAMOGETON. *Pet.* 4. *Cal.* nullus. *Sem.* 4. nuda.

POTAMOGETON. Bloss. *none.* Cal. 4 *leaves.* Seeds 4 : *sitting.*

IV TETRANDRIA.

1 MONOGYNIA.

DIPSACUS. *Smith.* 168. *With.* 182.

Cal. communis polyphyllus: *proprius* superus, monophyllus. *Receptaculum* paleaceum. *Pappus* cyathiformis.

Cal. common *many-leaved:* proper *ſuperior.* Receptacle *chaffy.*

ſylveſtris. D. foliis oppositis serratis, paleis rectis, involucris inflexis capitulo longioribus.

D. *Leaves in oppoſite pairs, united at the baſe: chaff ſtraight.*

WILD TEASEL. Hedges and ditch banks; frequent. Southwell; Newark.

piloſus. D. foliis petiolatis appendiculatis, involucris deflexis capitulo æqualibus.

D. *Leaves on leaf ſtalks, with appendages at the baſe.*

SHEPHERD'S ROD. SMALL TEASEL. In hedges; rare. Flintham Wood; Eperstone Wood; Hedge near Thurgarton, on the road to Nottingham. P. August.

SCABIOSA. *Smith.* 170. *With.* 183.

Cal. communis polyphyllus: *proprius* duplex, superus. *Recept.* paleaceum, sive nudum.

Cal. common *many-leaved:* proper *double, superior.* Recept. *naked or chaffy.* Seed *wrapped in the proper cup.*

S. corollulis quadrifidis æqualibus, foliis cau- *ſucciſa.*
linis dentatis, floribus subglobosis.

S. *Bloſſoms 4-cleft, equal: ſtem undivided: branches approaching: leaves ſpear-egg-ſhaped.*

DEVIL'S-BIT SCABIOUS. Fields and pastures; frequent. Southwell; Edingley Moor. P. June---.Aug.

S. corollulis quadrifidis radiantibus, foliis pin- *arvenſis.*
natifidis incisis, caule hispido.

S. *Bloſſoms 4-cleft, radiating: leaves wing-cleft, jagged: ſtem rough, with ſtrong hairs.*

FIELD SCABIOUS. Pastures and corn-fields. Beacon-field; Newark. P. July, August.

S. corollulis quinquefidis radiantibus, foliis *colum-*
radicalibus ovatis lyratisve crenatis: cauli- *baria.*
nis pinuatifidis: laciniis linearibus.

S. *Bloſſoms 5-cleft, radiating: root-leaves ſimple, ſcolloped: ſtem-leaves compound.*

SMALL SCABIOUS. Dry hilly pastures, on a calcareous soil. Mansfield. June----September.

SHERARDIA. *Smith.* 171. *Withering.* 185.

Cor. monopetala, infundibuliformis, supera. *Semina* duo, tridentata:

Bloss. 1 *petal, funnel-ſhaped, long.* Seeds 2, *naked, crowned by the calyx.*

S. foliis omnibus verticillatis, floribus termina- *arvenſis.*
libus.

S. *All the leaves in whirls: flowers terminating.*

BLUE SHERARDIA, or LITTLE FIELD-MADDER. Corn and fallow fields; common. Coddington; Newark; Southwell; Farnsfield. A. May---Sept.

ASPERULA. *Smith.* 172. *Withering.* 185.

Cor. monopetala, infundibuliformis, supera. *Semina* duo, globosa

Bloss. 1 *petal, funnel-shaped.* Seeds 2. *globular, like cork.*

odorata. A. foliis octonis lanceolatis, florum fasciculis pedunculatis, fructu hispido.

A. *Leaves* 8 *in a whirl, spear-shaped: flowers in bundles, on fruit-stalks.*

SWEET WOODRUFF, or WOODROOF. Woods and shady places. In the following woods; Combes, Eperstone, Oxton, Flintham, Ossington, Broxtow, Eakring Brail, Lounde; and in the thickets near Oxton Toll-bar. P. May.

GALIUM. *Smith.* 173. *With.* 186.

Cor. monopetala, plana, supera. *Semina* duo, subrotunda.

Bloss. 1 *petal, bell-shaped, short.* Seeds 2, *nearly globular, beneath; like cork.*

* Fructu glabro.

1 *Seeds smooth.*

cruciatum. G. foliis quaternis ovatis hirsutis, caule superne simplici piloso, pedunculis lateralibus diphyllis.

Valantia cruciata. LINN.

G. *Stem hairy, only branched at the base: leaves hairy, egg-shaped,* 4 *in a whirl: fruit-stalks with* 2 *or* 3 *leaves.*

CROSS-WORT. MUG-WEED. Hedge banks; common. P. May.

palustre. G. foliis quaternis obovatis inæqualibus obtusis, caulibus diffusis superne ramosis.

G. *Leaves unequal, ſtrap-ſpear-ſhaped, ſmooth, entire, blunt* 4, 5, *or* 6 *in a whirl; ſtems rough, ſpreading, branched upwards.*

WHITE WATER BED-STRAW. Moist meadows and commons. On Coddington and Langford Moors. P. July.

G. foliis senis lanceolatis retrorsum serrato-aculeatis mucronatis rigidis, corollis fructu majoribus. *uliginoſum.*

G. *Leaves in ſixes, ſpear-ſhaped, dagger-pointed, ſtiff, bowed backwards: ſerratures prickly: bloſſoms larger than the fruit.*

ROUGH MARSH BED-STRAW. Meadows, pastures, and wet heaths. Parks at Southwell; Coddington Moors. P. July, Aug.

G. foliis octonis linearibus sulcatis integerrimis scabris, floribus paniculatis congestis. *verum.*

G. *Leaves* 8 *in a whirl, ſtrap-ſhaped: flowering branches ſhort.*

YELLOW BED STRAW. CHEESE RENNET. Sides of fields and roads; frequent. Southwell; Newark. P. July. August.

G. foliis octonis ellipticis obtusiusculis mucronatis margine scabris, floribus paniculatis divaricatis. *Mollugo*

G. *Leaves* 8 *in a whirl, egg-ſtrap-ſhaped, dagger pointed: somewhat serrated, greatly expanded: ſtem feeble: branches greatly expanding.*

GREAT HEDGE BED-STRAW. Hedges and heaths; frequent. Southwell. P. June---August.

* * Fructu hispido.

2 *Seeds hispid.*

Aparine. G. foliis octonis lanceolatis carinatis scabris retrorsum aculeatis, caule flaccido, fructibus hispidis.

G. *Leaves* 8 *in a whirl, ſpear-ſhaped: keel rough, with prickles pointing backwards: joints woolly.*

GOOSE-GRASS, or CLEAVER'S. CATCHWEED. Hedges; frequent. Southwell; Newark.
A. May---August.

PLANTAGO. *Smith.* 183. *Withering.* 195.

Cal. quadrifidus. *Cor.* quadrifida, infera: limbo reflexo *Stam.* longissima. *Caps.* bilocularis, circumscissa.

Bloss. 4-*cleft, permanent, the border broken back.* Cal. 4-*cleft.* Stam. *extremely long.* Caps. 2-*celled, cut round, superior.*

major. P. foliis ovatis glabriusculis petiolo brevioribus, scapo tereti, spica floribus imbricata, seminibus plurimis.

P. *Leaves egg-ſhaped, ſmooth: ſtalk cylindrical: ſpike tiled with florets.*

GREATER PLANTAIN. Road sides; very common.
P. June.---August.

media. P. foliis ovatis pubescentibus petiolo longioribus, scapo tereti, spica cylindrica, seminibus solitaris.

P. *Leaves egg-ſpear-ſhaped, pubeſcent: ſpike and ſtalk cylindrical.*

HOARY PLANTAIN. Road sides and pastures; common. P. June---August.

P. foliis lanceolatis utrinque acutis, spica ovata nuda, scapo angulato. *lanceolata.*

P. *Leaves spear-shaped: spike nearly egg-shaped, naked: stalk angular.*

RIBWORT PLANTAIN. Meadows and pastures; very common. P. June, July.

P. foliis linearibus pinnato dentatis, scapo tereti. *Coronopus.*

P. *Leaves strap-shaped, toothed: stalk cylindrical.*

BUCKS-HORN PLANTAIN. STAR OF THE EARTH. In gravelly soil. Between Farnsfield and Mansfield Forest; upon the Forest of Sherwood, in many places; in a lane leading from Mansfield to Sherwood Hall. A. June---Aug.

SANGUISORBA. *Smith.* 186. *With.* 199.

Cal. quadrifidus. *Germen* inter calycem corrollamque. *Semen* unicum.

Bloss. 4-*cleft.* Germen *betwixt the calyx and the blossom.*

S. spicis ovatis. *officinalis.*

S. *Spikes egg-shaped.*

GREAT BURNET. Moist pastures; on marly or calcareous soils. Meadows at Southwell, Newark, and Averham. P. June, July.

CORNUS. *Smith.* 187. *With.* 200.

Cal. quadridentatus. *Petala* 4. *Drupa* infera, nuce biloculari.

Involucrum *generally* 4-*leaved.* Petals 4 *superior.* Drupa *succulent; beneath: 2-celled: hard; solitary.*

sangui-nea. C. ramis rectis, foliis ovatis utrinque viridibus, cymis nudis planis.

C. *Branches straight, leaves egg-shaped, green on both sides: tuft flatted.*

WILD CORNEL-TREE. DOG-WOOD. Woods and hedges. Hedges in the Quonce-Hill Close, at Newark; Halam Hill, Southwell; Edingley Hill. S. June.

PARIETARIA. *Smith.* 189. *With.* 201.

Cal. quadrifidus, inferus. *Cor.* nulla. *Stamina* elastica. *Semen* 1, calyce elongato tectum.

Flores aliquot fæminei calyce immutato.

Fem. florets mixed with hermaphrodite on the same branch. Calyx 4-*cleft.* Bloss. *none.* Seed 1, *superiour, lengthening.*

officinalis. P. foliis lanceolato-ovatis basi uninervibus, involucri laciuiis ovatis, caule erectiusculo.

P. *Leaves spear-egg-shaped; fruit-stalks forked: cup of* 2 *leaves.*

PELLITORY OF THE WALL. On old walls, and among rubbish. Rock-holes and crevices of the walls of Nottingham Castle; Walls of Southwell Cathedral and Thurgarton Church. P. June---Sept.

ALCHEMILLA. *Smith.* 119. *With.* 204.

Cal. octofidus, laciniis alternis minoribus, inferus. *Cor.* nulla. *Semen.* 1, nudum.

Calyx 8-*cleft.* Bloss. *none.* Seed 1 *or* 2, *inclosed by the calyx.*

vulgaris. A. foliis plicatis lobatis.

A. *Leaves gashed.*

COMMON LADIES MANTLE. Woodland meadows and pastures. Southwell; Thickets about Oxton Toll-bar; Eperstone and Oxton Woods. P. June,---Sept.

III TETRAGYNIA.

ILEX. *Smith.* 192. *Withering.* 210.

Cal. 4-vel 5-dentatus. *Cor.* rotata. *Styli* nulli. *Bacca* tetrasperma.

Flores aliquot masculi, quadrifidi.

Stam. *and* Pist. *variouſly diſpoſed.* Calyx 4-*toothed.* Bloss. *wheel-ſhaped.* Style *none.* Berry 4-*ſeeded.*

I. foliis ovatis acutis spinosis. *Aquifolium.*

I. *Leaves egg-ſhaped, acute, thorny, on leaf ſtalks: flowers in a kind of umbel, axillary.*

HOLLY-TREE. Woods and hedges. Southwell. T. May.

POTAMOGETON. *Smith.* 193. *With.* 211.

Cal. nullus. *Petala* 4. *Stylus* nullus. *Semina* 4.

Cal. *none.* Petals 4. Style *none.* Seeds 4.

P. foliis superioribus oblongo-ovatis petiolatis natantibus. *natans.*

P. *Leaves oblong, egg-ſhaped, on leaf-ſtalks; floating.*

BROAD-LEAVED POND-WEED. Ponds and slow rivers; common. P. July.

P. foliis cordatis amplexcaulibus omnibus immersis. *perfoliatum.*

P. *Leaves heart-ſhaped, embracing the ſtem.*

PERFOLIATE POND-WEED. Slow rivers and ponds; common. Kirklington Mill; Ossington. P. Jnly, Aug.

denſum. P. foliis ovatis acuminatis oppositis confertis, caule dichotomo, spica quadriflora.

P. *Leaves egg-ſhaped, tapering to a point: oppoſite, crowded: ſtem forked: ſpike 4-flowered.*

CLOSE-LEAVED POND-WEED. Ditches and slow streams. P. June.

lucens. P. foliis ovato-lanceolatis planis in petiolos attenuatis, spica multiflora coarctata.

P. *Leaves very long and ſpear-ſhaped, ſitting: upper ones oppoſite.*

SHINING POND-WEED. Rivers and ponds; frequent. P. June, July.

criſpum. P. foliis lanceolatis alternis undulatis serratis.

P. *Leaves ſpear-ſhaped, alternate, or oppoſite, waved and ſerrated.*

CURLED POND-WEED. Ponds and low streams; not uncommon. In the lower pond at Norwood Park. P. June, July.

pectinatum. P. foliis setaceis parallelis approximatis distichis basi vaginantibus.

P. *Leaves briſtle-ſhaped, parallel, near together, pointing 2 ways.*

FENNEL-LEAVED POND-WEED. Rivers and ponds. In the Race of the Water-mill, Southwell. P. July.

SAGINA. *Smith.* 199. *With.* 215.

Cal. tetraphyllus. *Petala* 4. *Caps.* unilocularis.

Calyx 4-*leaved.* Petals 4. Caps. 1-*celled,* 4-*valved, many-ſeeded.*

S. caulibus procumbentibus glabris, petalis brevissimis. *procumbens.*

S. *Branches trailing.*

PROCUMBENT PEARL-WORT. Walls, roofs, sandy places, garden walks, paved courts; common. Edingley Moors; Coddington Moors. P. May---Aug.

S. caulibus erectiusculis pubescentibus, petalis obsoletis. *apetala.*

S. *Stem rather upright, pubescent: flowers alternate, with very minute petals, notched at the end.*

ANNUAL SMALL-FLOWERED PEARL-WORT. Walls, gravel walks, and other very dry places; not uncommon. A. May, June.

S. caule erecto subunifloro, foliolis calycinis acutis, petalis integris. *erecta.*

S. *Stem upright, generally supporting a single flower.*

UPRIGHT PEARL-WORT. Gravelly soils. Edingley and Coddington Moors. A. May.

RADIOLA. *Smith.* 201.

Cal. multifidus: *Petala* 4. *Capsula* supera, octovalvis, octolocularis. *Semina* solitaria.

Cal. *many-cleft.* Bloss. 4 *petals.* Caps. *superior, with* 8 *valves and* 8 *cells.* Seeds *solitary.*

RADIOLA. *millegrana.*

Linum Radiola. LINN. *With.* 323.

ALL-SEED. Moist sandy heaths; rare. In the lane leading to Stapleford Moors, from the Sleaford Turnpike. A. July, August.

Classis V.

PENTANDRIA.

Smith. 203: *Withering.* 217.

Stamina 5.

MONOGYNIA.

Stylus 1.

* Fl. monopetali, inferi, tetraspermi. ASPERIFOLIÆ.

1 *Flowers of* 1 *petal*; *beneath*; *and* 4 *naked ſeeds.*
ROUGH-LEAVED.

ECHIUM. *Cor.* fauce nuda, irregularis. *Stigma* bipartitum.

ECHIUM. Bloss. *mouth naked*; *irregular bell-ſhaped.*

LITHOSERMUM. *Cor.* fauce nuda, infundibuliformis. *Cal.* quinquepartitus.

LITHOSPERMUM. Bloss. *mouth naked*; *funnel ſhaped.* Cal. *with* 5 *divisions.*

SYMPHYTUM. *Cor.* fauce dentata, ventricosa.

SYMPHYTUM. Bloss. *mouth toothed*; *bellying.*

BORAGO. *Cor.* fauce dentata, rotata.

BORAGO. Bloss. *mouth toothed*; *wheel ſhaped.*

LYCOPSIS. *Cor.* fauce fornicta, infundibuliformis, tubo curvato.

LYCOPSIS. Bloss. *mouth closed*; *funnel-ſhaped*; *tube crooked.*

CYNOGLOSSUM. *Cor.* fauce fornicata, infundibuliformis. *Semina* depressa, latere affixa.

CYNOGLOSSUM. Bloss. *mouth cloſed*; *funnel-ſhaped:* Seeds *depreſſed*; *fixed ſide-ways.*

MYOSOTIS. *Cor.* fauce fornicata, hypocrateriformis, lobis subemarginatis.

MYOSOTIS. Bloss. *mouth cloſed*; *salver-shaped*; *lobes notched at the end.*

* * Fl. monopetali, inferi, angiospermi.

2 *Flowers of* 1 *petal*; *beneath. Seeds in a vessel.*

ANAGALLIS. *Caps.* unilocularis, circumscissa. *Cor.* rotatata. *Stam.* hirsuta.

ANAGALLIS. Caps. 1-*celled*; *cut round.* Bloss. *wheel-ſhaped.* Summit *a knob.*

LYSIMACHIA. *Caps.* unilocularis, decemvalvis. *Cor.* rotata.

LYSIMACHIA. Caps. 1-*celled*; 10-*valved.* Bloss. *wheel-ſhaped.* Summit *blunt.*

PRIMULA. *Caps.* unilocularis, ore decemfido. *Cor.* fauce pervia, tubo cylindrico. *Stigma* globosum.

PRIMULA. Caps. 1-*celled.* Bloss. *funnel-ſhaped*; *mouth open.* Summit *a knob.*

HOTTONIA. *Caps.* unilocularis. *Cor.* hypocrateriformis. *Stam.* fauce imposita, *Stigma* globosum.

HOTTONIA. Caps. 1-*celled.* Bloss. *tube below the ſtamen.* Summit *globular.*

MENYANTHES. *Caps.* unilocularis. *Cor.* hirsuta. *Stigma* bifidum.

MENYANTHES. Caps. 1-*celled*. Bloss. *shaggy*. Summit *cloven*.

DATURA. *Caps.* bilocularis, quadrivalvis. *Cor.* infundibuliformis. *Cal.* deciduus.

DATURA. Caps. 2-*celled*; 4-*valved*. Bloss. *funnel-ſhaped*. Cal. *deciduous*.

HYOSCYAMUS. *Caps.* bilocularis, operculata. *Cor.* infundibuliformis. *Stigma* capitatum.

HYOSCYAMUS. Caps. 2-*celled*; *covered with a lid*. Bloss. *funnel-ſhaped*. Summit *a knob*.

VERBASCUM. *Caps.* bilocularis. *Cor.* rotata. *Stigma* simplex. *Stam.* declinata, barbata.

VERBASCUM. Caps. 2-*celled*. Bloss. *wheel-ſhaped*. Stamens *declining*. Summit *blunt*.

CHIRONIA. *Caps.* bilocularis. *Cor.* hypocrateriformis. *Antheræ* demum spirales.

CHIRONIA. Caps. 2-*celled*. Bloss. *funnel-ſhaped*. Anthers *ſpirally twiſted after flowering*.

CONVOLVULUS. *Caps.* bi-vel tri-locularis. *Sem.* bina. *Cor.* companulata, plicata. *Stigmata* duo.

CONVOLVULUS. Caps. 2-*celled*; 2 *ſeeds*. Bloss. *bell-ſhaped*. Summit *cloven*.

VINCA. *Folliculi* duo, erecti. *Cor.* hypocrateriformis.

VINCA. Seed vessel 2 *upright little bags*. Bloss. *ſalver-ſhaped*. Seeds *ſimple*.

SOLANUM. *Bacca* bilocularis. *Cor.* rotata. *Antheræ* biporosæ.

SOLANUM. Berry 2-*celled*. Anthers *with* 2 *holes in each*.

ATROPA. *Bacca* bilocularis. *Cor.* campanulata. *Stam.* distantia, incurvata.

ATROPA. Berry 2-*celled*. Stamens *distant*; *crooked*.

* * * Fl. monopetali, superi.

3 *Flowers of* 1 *petal*; *ſuperior*. *Seeds in a veſſel*.

SAMOLUS. *Caps.* unilocularis, apice quinque-valvis. *Cor.* hypocrateriformis.

SAMOLUS. Caps. 1-*celled*; 5-*valved at the top*: Bloss. *ſalver-ſhaped*. Summit *a knob*.

JASIONE. *Caps.* semibilocularis, apice dehiscens. *Cor.* rotata, quinquepartita. *Stigma* clavatum.

JASIONE. Caps. 2-*celled* Bloss. *regular*. Anthers *adhering together*. Cal. *common*, 10-*leaved*.

CAMPANULA. *Caps.* tri-sive quinquelocularis, perforata. *Cor.* campanulata. *Stigma* trifidum.

CAMPANULA. Caps. 3 *or* 5-*celled*; *perforated*. Bloss. *bell-ſhaped*. Summit 3-*cleft*.

LONICERA. *Bacca* bilocularis, polysperma. *Cor.* irregularis.

LONICERA. Berry 2-*celled*; *roundiſh*. Bloss. *irregular*. Summit *a knob*.

* * * * Fl. pentapetali, inferi

4 *Flowers of* 5 *petals*; *beneath the germen*.

RHAMNUS. *Bacca* trilocularis. *Cal.* urceolatus corollifer.

RHAMNUS. Berry 3-*celled*; *roundish*. Calyx *tubular*, *reſembling a bloſſom*, *with* 5 *converging ſcales at the mouth*.

EUONUMUS. *Caps.* quinquelocularis. *Sem.* calyptrata. *Cal.* planus.

EUONYMUS. Berry *like a capsule*; *lobed.* Cal. *expanding.* Seeds *in a berry-like seed-coat.*

VIOLA. *Caps.* unilocularis, trivalvis. *Cal.* pentaphyllus, calcaratus. *Cor.* irregularis.

VIOLA. Caps. 1-*celled*; 3 *valved.* Bloss. *irregular, with a spur behind.* Anthers *adhering together.* Cal. 5 *leaves.*

* * * * * Fl. pentepetali, superi.

5 *Flowers of* 5 *petals*; *above the germen.*

RIBES. *Bacca* polysperma. *Cal.* corollifer. *Stylus* bifidus.

RIBES. Berry *many seeded.* Cal. *bearing the blossom.* Style *cloven.*

HEDERA. *Bacca* pentasperma, calyce cincta. *Stylus* simplex.

HEDERA. Berry 5 *seeded*; *clasped by the calyx.* Summit *simple.*

DIGYNIA.

Styli. 2.

* Fl. monopetali, inferi.

1 *Flowers of* 1 *petal*; *beneath the germen.*

GENTIANA. *Caps.* unilocularis. *Cor.* basi tubulosa, poris nectariferis destituta.

GENTIANA. Caps. 1-*celled*; 2-*valved*. Bloss. *tubular*. Receptacles *of the ſeeds*, 2.

CUSCUTA. *Caps.* bilocularis. *Cor.* campanulata.

CUSCUTA. Bloss. 4-*cleft*; *egg-ſhaped*. Cal. 4-*cleft*. Cap. 2-*celled*; *cut round*.

** Fl. incompleti.

2 *Flowers incomplete.*

CHENOPODIUM. *Sem.* unicum, lenticulare, superum.

CHENOPODIUM. Seed *round and flat*. Cal. *with* 5 *diviſions*; *ſegments concave*.

HERNIARIA. *Caps.* monosperma, corticata. *Filam.* quinque sterilia.

HERNIARIA. Seed 1; *egg-ſhaped*; *covered*. Cal. *with* 5 *diviſions*. Filaments 5 *ſterile ones*.

ULMUS. *Caps.* monosperma, membranacea. compressa.

ULMUS Berry *juiceleſs*; *compreſſed*. Cal. 1 *leaf*; *ſhrivelling*.

*** Fl. pentapetali, superi, dispermi. UMBELLATÆ.

3 *Flowers of* 5 *petals, moſtly of* 2 *ſeeds.*

UMBELLIFEROUS.

A. Involucro universali partialique.

A. Involucrum general, and partial.

HYDROCOTYLE. *Umbella* simplex. *Sem.* compressa.

HYDROCOTYLE. Flowers *in a ſort of umbel*; *fertile*. Seeds *compreſſed*.

SANICULA. *Umb.* subcapitatæ, disco abortiente. *Sem.* uncinato-muricata.

SANICULA. Flowers *in a ſort of umbel*; *central ones barren.* Seeds *prickly.*

HERACLEUM. *Fl.* radiati, abortivi. *Invol.* deciduum. *Sem.* membranacea.

HERACLEUM. Flowers *radiate*; *ſome barren.* Invol. *deciduous.* Seeds *membranaceous.*

ŒNANTHE. *Fl.* radiati; disci steriles. *Sem.* coronata, sessilia.

ŒNANTHE. Flowers *radiate*; *outer ones barren.* Invol. *ſimple.* Seeds *crowned, ſitting.*

CAUCALIS. *Fl.* radiati; abortivi. *Invol.* simplex. *Sem.* muricata.

CAUCALIS. Flowers *radiate*; *central ones barren.* Invol. *ſimple.* Seeds *prickly.*

DAUCUS. *Fl.* radiati, abortivi. *Invol.* pinnatum. *Sem.* muricata.

DAUCUS, Flowers *radiate*; *central ones barren.* Invol. *winged.* Seeds *rough with hairs.*

PEUCEDANUM. *Fl.* flosculosi, abortivi. *Invol.* simplex. *Sem.* compressa, alata, striata.

PEUCEDANUM. Flowers *uniform*; *central ones barren.* Invol. *ſimple.* Seeds *depreſſed*; *ſcored.*

CONIUM. *Fl.* flosc. fertiles. *Pet.* cordata. *Sem.* gibba, costato-sulcata. *Involucella* dimidiata.

CONIUM. Flowers *uniform*; *all fertile.* Partial Invol. *extending but half way round.* Petals *heart-ſhaped.* Seeds *bulging*; *ribbed and furrowed.*

BUNIUM. *Fl.* flosc. fert. *Pet.* cordata. *Involucella* setacea.

BUNIUM. Flowers *uniform*; *all fertile.* Partial Invol. *like briſtles.* Petals *heart-ſhaped.*

SIUM. *Fl.* flosc. fert. *Pet.* cordata. *Sem.* subovata: striata.

SIUM. Flowers *uniform*; *all fertile.* Petals *heart-shaped.* Seeds *nearly egg-shaped*; *scored.*

ANGELICA. *Fl.* flosc. fert. *Pet.* incurva. *Umbellulæ* globosæ. *Sem.* hemisphærica, trialata.

ANGELICA. Flowers *uniform*; *all fertile.* Umbellules *globular.* Petals *nearly flat.*

SISON. *Fl.* flosc. fert. *Pet.* inflexa. *Umbella* depauperata. *Sem.* ovata, striata.

SISON. Flowers *uniform*; *all fertile.* Umbel *of few spokes.* Petals *nearly flat.*

B. Involucris partialibus, universali nullo.

Involucrum only partial.

ŒTHUSA. *Fl.* subradiantes, fertiles. *Involucella* dimidiata.

ŒTHUSA. Flowers *somewhat radiate: all fertile*: Partial Invol. *extending but half way round.*

CHÆROPHYLLUM. *Fl.* subradiantes, abortivi. *Involuc.* reflexa, concava, pentaphylla.

CHÆROPHYLLUM. Flowers *uniform*; *central ones barren.* Partial Invol. *of 5 leaves.*

SCANDIX. *Fl.* radiati: abortivi. *Fruct.* subulatus.

SCANDIX. Flowers *radiate*; *central ones barren.* Fruit *oblong.*

PHELLANDRIUM. *Fl.* flosculosi, fertiles. *Fruct.* coronatus.

PHELLANDRIUM. Flowers *uniform*; *all fertile.* Fruit *crowned.*

CICUTA. *Fl.* flosc. fert. *Fruct.* subovatus.

CICUTA. Flowers *uniform*; *all fertile.* Petals *flattiſh.*

C. Involucro nullo; vix universali, nunquam partialibus.

C. *Involucrum none*; *neither general nor partial.*

APIUM. *Involucrum* monophyllum. *Fl.* flosc. fert. *Fruct.* costatus. *Pet.* inflexa.

APIUM. Flowers *uniform*; *almoſt all fertile.* Petals *bent inwards.* Seeds *minute*; *ſcored.*

PIMPINELLA. *Fl.* flosc. fert. *Fruct.* striatus. *Stigmata* subglobosa.

PIMPINELLA. Flowers *uniform*; *all fertile.* Umbels *before flowering*, *nodding.* Petals *heart-ſhaped.*

ÆGOPODIUM. *Fl.* flosc. fert. *Fruct.* ovatus, striatus. *Stigm.* simplicia.

ÆGOPODIUM. Flowers *uniform*; *all fertile.* Seeds *bulging*; *ſcored.* Petals *heart-ſhaped.*

ANETHUM. *Fl.* flosc. fert. *Fruct.* subcompressus, utrinque tricostatus.

ANETHUM. Flowers *uniform*; *all fertile.* Seeds *bordered*; *ſcored.*

PASTINACA. *Fl.* flosc. fert. *Fruct.* compressoplanus.

PASTINACA. Flowers *uniform*; *all fertile.* Seeds *depreſſed and flat.*

SMYRNIUM. *Fl.* flosc. abortivi. *Semina* reniforma, angulata.

SMYRNIUM. Flowers *uniform*; *central ones barren.* Seeds *kidney-ſhaped*; *angular.*

CARUM. *Fl.* flosc. abort. *Sem.* gibba, striata.
CARUM. Flowers *uniform: central ones barren.* Seeds *bulging; scored.*

TRIGYNIA.

Styli 3.

* Flores superi.

1. *Flowers above the germen.*

VIBURNUM. *Cor.* quinquefida. *Bacca* monosperma.
VIBURNUM. Bloss. *5-cleft.* Berry *1-seeded.*
SAMBUCUS. *Cor.* quinquefida. *Bacca* trisperma.
SAMBUCUS. Bloss. *5-cleft.* Berry *3-seeded.*

TETRAGYNIA.

Styli 4.

PARNASSIA. *Nectaria* ciliata setis globiferis.
PARNASSIA. Bloss. *5 petals.* Nectaries *5: fringed with glands.* Caps. *4-valved.*

PENTAGYNIA.

Styli 5.

LINUM. *Cor.* pentapetala. *Caps.* decemlocularis.

LINUM. Bloss. *5-petals.* Caps. 10 *celled: 1 seed in each cell.*

HEXAGYNIA.

Styli 6.

DROSERA. *Cor.* pentapetala. *Caps.* trivalvis, polysperma.

DROSERA. Bloss. *5-petals.* Caps. 1 *celled*; *opening at the top.*

POLYGYNIA.

Styli plurimi.

MYOSURUS. *Pet.* quinque, unguibus tubulosis, nectariferis. *Sem.* nuda.

MYOSURUS. *Cal. 5 leaved. Nectaries 5 tongue-shaped. Seeds naked.*

PENTANDRIA.

1 MONOGYNIA.

MYOSOTIS. *Smith.* 212. *With.* 225.

Cor. hypocrateriformis, quinquefida, subemarginata: fauce clausa fornicibus.

Blossom *salver-shaped, 5-cleft, lobes notched.* Mouth *closed with projecting scales.* Nuts 4, *imperforated.*

M. seminibus nudis, foliis elliptico lanceolatis, racemis ebracteatis multifloris. *scorpioides.*

M. *Seeds smooth: calyxes egg-shaped, tapering to a point; very hairy, longer than the tube of the blossom: leaves egg-spear-shaped.*

M. arvensis. *With.*

MOUSE-EAR SCORPION-GRASS. In sandy places; common. A. May, June.

B. M. *Seeds smooth: calyxes inversely egg-shaped, blunt, smooth, as long as the tube of the blossom: leaves spear-shaped.*

M. palustris. *With.*

WATER MOUSE-EAR SCORPION-GRASS. Wet ditches, springs, rivulets. P. May---July.

LITHOSPERMUM. *Smith.* 213. *With.* 226.

Cor. infundibuliformis: fauce pervia, nuda. *Cal.* quinquepartitus.

Blossom *funnel-shaped, tube long, slender, open and without valves at the mouth.* Cal. *with 5 divisions.* Nuts 4, *very hard, imperforated.*

officinale. L. seminibus lævibus, corollis calycem vix superantibus, foliis lanceolatis acutiusculis venosis.

L. *Seeds smooth; blossoms hardly longer than the cup: leaves spear-shaped.*

COMMON GROMWELL. GRAY MILL. GREY MILLET. In dry gravelly soils. Thorny-moor Holt, near Southwell. In a close near Halam beck. In a hedge between Broxtow and Wigley Woods. P. May.

arvense. L. seminibus rugosis, corollis vix calycem superantibus, foliis obtusis aveniis.

L. *Seeds wrinkled: blossoms hardly longer than the cups.*

CORN GROMWELL. BASTARD ALKANET. Cornfields. In cornfields between Kirklington turnpike-road, and Bella Park; Beacon-fields, near Newark; Fields between Newark and Hawton.

A. May, June.

CYNOGLOSSUM. *Smith* 216. *With.* 227.

Cor. infundibuliformis; fauce clausa fornicibus. *Sem* depressa, interiore tantum latere stylo affixa.

Blossom *funnel-shaped: mouth closed by projecting valves.* Nuts 4, *depressed, fixed to the style by the inner side only, imperforated.*

officinale. C. staminibus corolla brevioribus, foliis lato-lanceolatis tomentosis sessilibus.

C. *Stamens shorter than the blossom: leaves broad, spear-shaped, sitting, cottony.*

COMMON HOUND'S-TONGUE. Road sides, and amongst rubbish; not frequent. In hedge bottoms, and lanes about Collingham; Mansfield. B. June.

SYMPHYTUM. *Smith.* 218. *With.* 230.

Cor. limbus tubulato-ventricosus, fauce clausa radiis subulatis. *Cal.* quinquepartitus.

Bloss. *funnel-shaped, bellying towards the top: mouth closed by hollow radiate valves, which have an open hole on the outside, near the border.* Nuts 4, *perforated.*

S. foliis ovato-lanceolatis decurrentibus. *officinale.*

S. *Leaves egg-shaped, decurrent.*

COMMON COMFREY. Banks of rivers and wet ditches. In a ditch in a close at Ossington.
P. May, June.

BORAGO.

Cor. rotata, fauce radiis clausa.

Bloss. *wheel-shaped: mouth closed with rays.*
Nuts 4, *not perforated.*

B. foliis omnibus alternis, calycibus patentibus. *officinalis.*

B. *All the leaves alternate: calyxes expanding.*

COMMON BORAGE. Walls, and amongst rubbish. Newark; but certainly not indigenious. B. June, July.

LYCOPSIS. *Smith.* 220. *With.* 231.

Cor. tubo incurvato, fauce clausa squamis convexis.

Bloss. *tube crooked: mouth closed with scales.*
Nuts 4, *perforated.*

arvenſis. L. foliis lanceolatis hispidis, calycibus florescentibus erectis.

L. *Leaves ſpear-ſhaped, rough with hair: calyx while in flower upright.*

SMALL BUGLOSS. Cornfields and road sides. Southwell; Mansfield; Newark. A. June, July.

ECHIUM. *Smith.* 221. *With.* 232.

Cor. irregularis, fauce nuda. *Stigma* bipartitum.

Bloss. *irregular*; *mouth naked.* Nuts 4, *large, rough, imperforated.*

vulgare. E. caule tuberculato hispido, foliis caulinis lanceolatis hispidis, spicis lateralibus pilosis deflexis.

E. *Stem rough with briſtles and tubercles: ſtem-leaves ſpear-ſhaped, rough with hair: flowers in lateral ſpikes.*

COMMON BLUE VIPER'S BUGLOSS. In sandy ground, and among rubbish; frequent. Farnsfield; Blidworth; Mansfield. B. July.

PRIMULA. *Smith.* 222. *With.* 233.

Caps. unilocularis, ore decemfido. *Corollæ* tubus cylindricus, fauce pervia. *Stigma* globosum.

Bloss. *tube cylindrical*; *mouth open.* Stem *within the tube.* Caps. 1-*celled, cylindrical, many-ſeeded, opening with* 10 *teeth.* Summit *a knob.*

vulgaris. P. foliis dentatis rugosis, scapis unifloris, corollæ limbo plano.

P. *Leaves wrinkled, toothed; border of the bloſſom flat.*

COMMON PRIMROSE. Woods, hedges and thickets, particularly in a clayey soil. P April.

P. foliis dentatis rugosis medio contractis, scapo multifloro, corollæ limbo plano. *elatior.*

P. *Leaves wrinkled and toothed: ſtalk many-flowered; outermoſt flowers drooping: border of the bloſſom flat.*

OXLIP. GREAT COWSLIP. Woods and shady places; not common. Thickets near Oxton Toll-bar, with P. vulgaris; Epperstone Wood.

P. foliis dentatis rugosis medio contractis, scapo multifloro, corollæ limbo concavo. *veris.*

P. *Leaves wrinkled and toothed: ſtalk many-flowered; all the flowers drooping: border of the bloſſom concave.*

P. officinalis. *With.*

COMMON COWSLIP, or PAIGLE. Pastures; common. Southwell; Newark. P. April.

CYCLAMEN. *Smith.* 224. *With.* 235.

Cor. rotata, reflexa; tubo brevissimo; fauce prominente. *Bacca* tecta capsula.

Bloss. *wheel-ſhaped, reflected; tube very ſhort; mouth projecting.* Recept. *fleſhy, ſupporting a berry incloſed in a caſe.*

C. corolla retroflexa, foliis cordatis angulatis denticulatis. *europæum.*

C. *Bloſſom bent back as if broken; leaves circular, ſcolloped.*

SPRING CYCLAMEN, or SOW-BREAD. In woods and thickets, probably not indigenous. In the woods at Langar, the seat of Earl Howe. P. April.

MENYANTHES. *Smith.* 225. *With.* 235.

Cor. hirsuta. *Stigma* bifidum. *Capsula* unilocularis.

Bloss. *hairy, or fringed.* Nect. 5 *at the base of the germen.* Summit 2-*lobed.* Caps. 1-*celled.*

trifoliata. M. foliis ternatis, corolla superne villosissima.

M. *Leaves growing by threes: blossom segments entire at the edge, shaggy on the upper surface.*

BUCKBEAN. MARSH TREFOIL. In marshy grounds. Edingley Moor; Oxton Bottoms; plentifully. Basford Scottum; in a Pond near Oxton Toll-bar. P. June, July.

HOTTONIA. *Smith.* 226. *With.* 236.

Cor. hypocrateriformis *Stam.* fauce inserta, lobis opposita. *Caps.* unilocularis. *Stigma* globosum. *Cal.* quinquepartitus.

Bloss. *salver-shaped.* Stam. *fixed to the top of the tube.* Summit *globular.* Caps. 1-*celled, globular.*

palustris. H. caule multifloro, pedunculis verticillatis.

H. *Fruit-stalks in whirls, many-flowered.*

FEATHERFOIL. WATER VIOLET. Ponds and ditches. In the Ditches beyond the Bridge on the Road from Newark to Kelham; about Fidler's Bridge, in the Foot-way to Kelham. P. June, July.

LYSIMACHIA. *Smith.* 227. *With.* 237.

Cor. rotata. *Caps.* globosa, mucronato, decemvalvis.

Bloss. *wheel-shaped.* Caps. *globular, dagger-pointed; of* 1 *cell,* 5 *valves, and many seeds.*

* Pedunculis multifloris.

1 *Fruit-ſtalks, many-flowered.*

L. paniculata, racemis terminalibus, foliis ovato-lanceolatis acutis. *vulgaris.*

L. *Panicled: bunches terminating.*

YELLOW LOOSESTRIFE. Banks of rivers, and ſhady marſhes; not common. In a Willow-holt by the River between Cromwell and Collingham; on the River-bank under Flintham Wood near Hazelford Ferry. P. July.

* * Pedunculis unifloris.

2 *Fruit-ſtalks, 1-flowered.*

L. foliis ovatis acutis, floribus ſolitariis, caule procumbente, ſtaminibus lævibus. *nemorum.*

L. *Leaves egg-ſhaped, acute; flowers ſolitary: ſtem trailing.*

WOOD LOOSESTRIFE. YELLOW PIMPERNEL. Woods and ſhady places. In the following Woods: Eperſtone, Combes, Flintham, Oſſington, Broxtow; Brockwood Hills. P. May---Sept.

L. foliis ſubcordatis, floribus ſolitariis, caule repente, ſtaminibus glandulosis. *Nummularia.*

L. *Leaves ſomewhat heart-ſhaped: flowers ſolitary; ſtem creeping.*

CREEPING LOOSESTRIFE. MONEY-WORT, or HERB TWOPENCE. Moiſt meadows and wet ſhady places; not uncommon. In the Old Trent Ditches beyond Newark Bridge, on the Kelham Road; Southwell Water-mill; Banks of the River Greet. P. June, July.

ANAGALLIS. *Smith.* 229. *With.* 238.

Cor. rotata. *Caps.* circumſcissa. *Stam.* hirsuta.

Bloss. *wheel shaped.* Caps. *cut round: of* 1-*cell, and many-seeds.*

arvensis. A. foliis ovatis subtus punctatis, caule procumbente.

A. *Leaves egg-spear-shaped: stem trailing: calyx segments spear-shaped.*

SCARLET PIMPERNEL. Corn-fields and sandy places; common. Southwell; Mansfield; Newark, Beacon Fields. A. June, July.

tenella. A. foliis subrotundis acutiusculis petiolatis, caule repente, stigmate acuto.

A. *Leaves egg-shaped, rather acute: stem creeping, striking root at the joints.*

BOG PIMPERNEL. Wet heaths and turfy bogs. Oxton Bottoms; Boggy ground in the Quonce Close, Newark; Basford Scottum; Gamston Moors near Nottingham; Coddington Carr Grounds; Close at Halam Beck near Southwell; Idingley Moor.
P. July, August.

CONVOLVULUS. *Smith.* 232. *With.* 239.

Cor. campanulata, plicata. *Stigmata* duo. *Caps.* bi-vel tri-locularis; loculis dispermis.

Bloss. *bell-shaped, plaited.* Nect. *surrounding the base of the germen.* Summits 2. Caps. 2 *or* 3-*celled,* 2 *seeds in each.*

arvensis. C. foliis sagittatis utrinque acutis, pedunculis subunifloris, bracteis minutis a flore remotis.

C. *Leaves arrow-shaped, acute on each side; fruit-stalks bearing generally* 1 *flower.*

SMALL BINDWEED. Corn-fields, road sides, and in Gardens; common. P. June, July.

sepium. C. foliis sagittatis postice truncatis, peduncu-

lis tetragonis unifloris, bracteis cordatis calyci approximatis.

C. *Leaves arrow shaped, lopped at the base: fruit-stalk 4 cornered, bearing 1 flower.*

GREAT BINDWEED. In hedges. In the Bushes on the Bank of the Old Treat Ditches near Newark Bridge. P. July, August.

CAMPANULA. *Smith.* 234. *With.* 241.

Cor. campanulata, fundo clauso valvis staminiferis. *Stigma* trifidum. *Caps.* infera, poris lateralibus dehiscens.

Bloss. *bell-shaped.* Filaments *broad and arched at the base.* Summit 3 *cleft.* Caps. *beneath: 3-celled; opening at 3 lateral holes.*

C. foliis radicalibus reniformibus; caulinis linearibus. *rotundifolia.*

C. *Root-leaves kidney-shaped: stem-leaves, strap-shaped, very entire.*

ROUND-LEAVED BELL-FLOWER. Heaths, road sides, and hedge banks: common. Newark; Southwell; Sherwood Forest. P. August, Sept.

C. foliis undulatis: radicalibus lanceolato-ovalibus, panicula coarctata. *Rapunculus.*

C. *Leaves waved: root leaves spear-oval: panicle compact.*

RAMPION BELL-FLOWER. Hedge banks, fallow-fields; rare. In a Plantation at Coddington.
Mr. JACOB ORDOYNO.

DEERING p. 185 mentions this plant as growing in Radford Hollows, near Nottingham; it is not, however, to be discovered in this situation, and we are confident, that the plant observed there by Deering, was no other than the C. ROTUNDIFOLIA, which still is to be found abundantly in the same spot. What confirms this o-

pinion, is, that C. ROTUNDIFOLIA was originally omitted by Deering, and afterwards inserted among the addenda.

latifolia. C. foliis ovato lanceolatis, caule simplicissimo tereti, pedunculis unifloris, fructibus cernuis.

C. *Leaves egg-spear-shaped: stem unbranched, cylindrical: flowers solitary, on fruit-stalks: fruit drooping.*

GIANT BELL-FLOWER. In woods and thickets. In the following Woods: Lounds near Eakring, Broxtow, Colwick, Ossington, Wernham, Fliutham, Winkburn and Kirklington, Westhorpe Dumal, near Southwell. P. August.

Trachelium. C. caule angulato, foliis cordato-lanceolatis acute serratis, calycibusque hispidis, pedunculis axillaribus paucifloris.

C. *Stem angular; leaves on leaf-stalks; cups fringed; fruit stalks 3-cleft.*

NETTLE-LEAVED BELL-FLOWER. In Colwick Wood; between Radford field and the Cherry-holt, near Asply. DEERING.

As the C. LATIOLIA grows in the places mentioned by Deering, and the C. TRACHILIUM has not yet presented itself to us in Nottinghamshire, we suppose that our Predecessor was mistaken.

glomerata. C. caule angulato simplici, floribus sessilibus, capitulo terminali, foliis ovatis crenatis.

C. *Stem angular, not branched: flowers sitting in a terminating head.*

CLUSTERED BELL-FLOWER. Meadows and pastures. In the Meadow of Newark, plentifully; where I have found a variety with milk-white flowers. Averham Meadow. In several places about Mansfield. DEERING. T. July.

IASIONE. *Smith.* 241. *With.* 247.

Cor. rotata, quinquepartita; laciniis linearibus. *Stigma* clavatum bifidum. *Antheræ* basi connexæ. *Caps.* infera, semibilocularis, apice dehiscens.

Common calyx 10-*leaved.* Cup proper 5-*toothed.* Bloss. 5 *petals, regular.* Anthers *united.* Caps. *beneath;* 2-*celled; many-seeded, opening at the top, crowned by the proper cup.*

IASIONE. *montana.*

I. *Leaves ſtrap-ſhaped, very entire:*

SHEEP'S BIT. SHEEP'S SCABIOUS. In dry sandy places. Dry banks by the side of the road from Newark to Lincoln, opposite Mr. Duncomb's House, at Langford; more abundantly on the Banks by the Road under Mr. Pocklington's Plantations, at Muskham: Farnsfield. A. June, July.

VIOLA. *Smith.* 244. *Withering.* 260.

Cor. pentapetala, irregularis, postice cornuta. *Antheræ* subcohærentes. *Caps.* supera, trivalvis, unilocularis. *Cal.* pentaphyllus, basi productus.

Calyx 5-*leaved, adhering to the bloſſom above the baſe.* Bloss. 5 *petals, irregular, with a ſpur behind.* Anthers *cohering.* Caps. 1-*celled,* 3 *valved.*

V. acaulis, foliis cordatis petiolisque piloso- *hirta.*
hispidis, calycibus obtusis.

V. *Leaves heart-ſhaped, rough with ſtrong hair; leaf-ſtalks rough with hair; floral leaves below the middle of the fruit ſtalk.*

HAIRY VIOLET. Shady places, and hedge banks. Lanes adjoining the Moors of Coddington and Langford; Barnby in the Willows; Westhorpe Dumble. P. April.

odorata. V. acaulis, stolonibus reptantibus, foliis cordatis petiolisque glabriusculis, calycibus obtusis.

V. *Leaves heart-shaped; suckers creeping; floral leaves above the middle of the fruit-stalk.*

SWEET VIOLET. Warm hedges, banks and moist warm lanes; particularly in clay or marle; common. Southwell; Newark; Nottingham. P. March, April.

palustris. V. acaulis, foliis reniformibus glabris, radice repente.

V. *Leaves kidney-shaped.*

MARSH VIOLET. Moist meadows; peaty and mossy bogs; rare. On Farnsfield Carr; Oxton bottoms; mossy banks on Stapleford Moors, near the spot where Osmunda regalis grows. P. April.

canina. V. caule adultiore adscendente canaliculato, foliis oblongo-cordatis, calycibus acutis.

V. *Stem ascending as it attains its full growth: leaves oblong-heart-shaped.*

DOG'S VIOLET. Shady places, heaths, hedge banks, common. On Stapleford, Coddington, and Langford Moors; plentifully. Halam and Edingley Hills; Southwell. P. April---June.

tricolor. V. caule angulato diffuso, foliis oblongis dentato-crenatis, stipulis lyrato-pinnatifidis.

V. *Stem branched; leaves egg-shaped, toothed: calyx smooth, but half the size of the blossom.*

PANSY VIOLET. HEART'S-EASE. Cornfields; sides of paths, gardens, and cultivated ground. Among corn, and in fields about Newark, Southwell, Mansfield, and Nottingham. A. May---Sept.

VERBASCUM. *Smith.* 249. *With.* 248.

Cor. rotata, irregularis. *Stam.* declinata, barbata. *Caps.* supera, bilocularis, valvulis inflexis, polysperma. *Stigma* simplex.

Bloss. *wheel-ſhaped, nearly regular.* Caps. *2-celled; 2-valved; many-ſeeded.*

V. foliis decurrentibus utrinque tomentosis, caule simplici. *Thapſus.*

V. *Leaves decurrent, cottony on both ſides: ſtem unbranched: ſummit globular.*

GREAT MULLEIN. HIGH TAPER. Dry ditch banks, in chalky or gravelly soils. On banks going into Collingham, from Newark; Mansfield Stone Quarries; Linby; Bulwell. B. July, Aug.

V. foliis cuneiformi-oblongis supra denudatis, caule angulato paniculato. *Lychnitis.*

V. *Leaves wedge-oblong.*

WHITE MULLEIN. Sandy lanes, and road sides; very rare. Clifton Hall. MARTYN.

V. foliis ovato-oblongis subserratis utrinque pulverulentis, caule tereti paniculato. *pulverulentum.*

V. *Leaves egg-oblong, ſomewhat ſerrated; powdery on both ſides.*

V. Lychnitis, Var. 1. *With.*

YELLOW HOARY MULLEIN. NORFOLK MULLEIN. Banks and hedges in a gravelly or calcareous soil; rare. At Wollerton. RAY. B. July.

V. foliis oblongo-cordatis petiolatis undulato-crenatis subpubescentibus. *nigrum.*

V. *Leaves heart-oblong, on leaf-ſtalks:*

DARK or BLACK MULLEIN. Hedges and road sides. In plantations at Rufford, belonging to the Hon. Richard Lumley Saville; Wollaton, near Nottingham; and near Mansfield; upon the Forest near Clipstone Water. P. July, August.

HYOSCYAMUS. *Smith.* 254. *With.* 252.

Cor. infundibuliformis, obtusa, irregularis. *Stam.* inclinata. *Caps.* operculata, bilocularis.

Bloss. *Funnel-ſhaped, blunt, irregular.* Stam. *leaning.* Caps. *with a lid, 2-celled.* Seeds *many, kidney-ſhaped.*

niger. H. foliis amplexicaulibus sinuatis, floribus sessilibus.

H. *Leaves embracing the ſtem, indented: flowers ſitting.*

COMMON HENBANE. In villages, road sides, and among rubbish; on dunghills. Newark; Southwell. A July.

ATROPA. *Smith.* 255. *Withering.* 252.

Cor. campanulata. *Stam.* distantia. *Bacca* supera, bilocularis.

Bloss. *bell-ſhaped.* Stam. *diſtant.* Berry *globular, 2-celled.*

Belladonna. A. caule herbaceo, foliis ovatis integris.

A. Stem herbaceous; leaves egg-ſhaped; entire.

DWALE, or DEADLY NIGHT-SHADE. Among limestone, and rubbish. Stone quarries, at Mansfield. Upon Clifton Rock, near Nottingham, facing the river. DEERING. In June 1806, I made a fruitless search after this plant at Clifton: and was informed that the plants had, on account of their poisonous qualities, been eradicated P. June.

SOLANUM. *Smith.* 256. *With.* 253.

Cor. rotata. *Antheræ* subcoalitæ, apice poro gemino dehiscentes. *Bacca* supera, biloculares.

Bloss. *Wheel-ſhaped.* Anthers *a little united, 2 holes at the top of each.* Berry 2-*celled.*

S. caule inermi frutescente flexuoso, foliis superioribus hastatis, racemis cymosis. *Dulcamara.*

S. *Stem without prickles, rather ſhrub-like, zig-zag: upper leaves halberd-ſhaped: flowers in tuft-like bunches.*

WOODY NIGHT-SHADE. BITTER-SWEET. Hedges and sides of ditches. Hedges by the sides of the Old Trent Ditches, beyond Newark Bridge; Southwell. S. June, July.

S. caule inermi herbaceo, foliis ovatis denato-angulatis, umbellis lateralibus nutantibus. *nigrum.*

S. *Stem without prickles, herbaceous: leaves egg-ſhaped, toothed, angular: bunches nodding, pointing 2 ways.*

COMMON, or GARDEN NIGHT-SHADE. In kitchen gardens, amongst rubbish, and on dunghills. Southwell; Newark: by the side of the road from Collingham to Besthorpe, in great abundance. A. June---Sept.

CHIRONIA. *Smith.* 257. *With.* 254.

Cor. hypocrateriformis. *Stam.* tubo inserta. *Antheræ* demum spirales. *Stylus* declinatus. *Pericarpium* superum, valvulis inflexis biloculare.

Bloss. *Funnel-ſhaped: piſtil leaning.* Stam. *fixed to the top of the tube of the bloſſom:* Anthers *becoming ſpiral.* Seed-vess. 2-*celled.*

Centaurium. C. caule herbaceo dichotome paniculato, foliis ovoto-lanceolatis, calyce tubo breviore.

C. *Stem herbaceous: leaves ſpear-ſhaped: calyx ſhorter than the tube of the bloſſom.*

COMMON CENTAURY. Barren paſtures, particularly in a clayey ſoil. Borders of cornfields about Southwell, plentifully; Eperſtone Wood; by the ſide of the road from Southwell to Kirklington; Cloſe at Halam Beck, near Southwell, with Chlora Perfoliata; on Mr. Denison's new road, leading from Carlton-upon-Trent to Oſſington.

Var. 1. Flowers white; about Southwell, Rev. J. T. Becher; near Oſſington, Rev. J. Charleſworth.

SAMOLUS. *Smith.* 259. *Withering.* 246.

Cor. hypocrateriformis, quinquefida, squamis interſtinctis. *Stamina* tubo inſerta, laciniis oppoſita. *Caps.* seminifera, unilocularis, quinquedentatus.

Bloss. *ſalver-ſhaped.* Stamens *protected by the valves of the bloſſom.* Caps. 1-*celled*; *beneath*; *opening with* 5 *valves at the top.*

Valerandi. S. foliis obtusis, racemo multifloro, pedicellis bracteolatis.

S. *Leaves blunt*; *bunches mauy-flowered*; *fruit-ſtalks with floret leaves.*

BROOK-WEED. WATER PIMPERNEL. Marshes and moiſt meadows, brooks and running waters. Parks at Southwell; in a Ditch under Lady-Wood, between Oſſington and Scarthingmoor Inn, near Tuxford. P. June, July.

LONICERA. *Smith.* 260. *With.* 246.

Cor. monopetala, irregularis. *Bacca* polyſperma, infera.

Bloss. 1 *petal, tubular, irregular.* Berry *beneath*; 1 *to* 3 *celled*; *many seeded.*

L. capitulis ovatis imbricatis terminalibus, foliis omnibus distinctis deciduis floribus ringentibus. *Periclymenum.*

L. *Heads egg-shaped, tiled, terminating: leaves distinct, deciduous: blossom gaping.*

COMMON HONEY-SUCKLE, or WOODBINE.
Hedges; common. Southwell. F. June. July.

RHAMNUS. *Smith.* 261. *With.* 256.

Cal. urceolatis. *Petala* 5, staminibus opposita. *Bacca* supera,

Calyx *tubular*; *scales protecting the stamens.* Bloss. *none*; *fruit a drupa.*

R. spinis terminalibus, floribus quadrifidis dioicis, foliis ovatis, caule erecto, bacca tetrasperma. *catharticus.*

R. *Thorns terminating*: *flowers* 4 *cleft, male and female on different plants*: *leaves egg-shaped*: *stem upright.*

BUCKTHORN. Woods and hedges In Hedges about Basford, and Bulwell; also in Holme-lane, in a Hedge by the Foot-way leading thence towards Nottingham. S. May, June.

EUONYMUS. *Smith.* 262. *With.* 259.

Cal. planus. *Petala* 5. *Caps.* pentagona, quinquelocularis, quinquevalvis, colorata. *Sem.* calyptrata.

Bloss. 5 *petals.* Caps. *coloured*; 5-*sided*, 5-*celled*, 5-*valved.* Seed-coat *hollow.* Seed *veiled.*

europæus: E. floribus, plerisque quadrifidis, petalis acutis, ramis lævibus.

E. *Flowers moſtly 4-cleft: leaves ſitting.*

SPINDLE-TREE. PRICKWOOD. Woods and Hedges; not common. Normanton Holt side, near the Water-mill, and in Mr. Bucklow's Peppermint Garden, Southwell. S. May.

RIBES. *Smith.* 263. *Withering.* 264.

Cal. superus, campanulatus, quinquefidus. *Petala* et *Stamina* calyci inserta. *Stylus* bifidus. *Bacca* polysperma.

Petals 5. *they and the* Stamens *fixed to the calyx.* Style *cloven.* Berry *beneath,* 1-*celled, many-ſeeded.*

* Inermia.

1 *Without prickles.*

rubrum. R. inerme, racemis glabris pendulis, floribus planiusculis, petalis obcordatis.

R. *Bunches ſmooth, pendant: flowers flattiſh.*

COMMON CURRANTS. Woods and hedges. In a hedge near Papplewick Bridge, in the road to Linby; also at Basford. S. May.

nigrum. R. inerme, racemis pilosis pendulis pedunculo simplici ad basin, floribus oblongis.

R. *Bunches hairy, flowers oblong.*

BLACK CURRANTS. Wet hedges and banks of rivers: with R. rubrum. In a Hedge near Papplewick Bridge. S. May.

* * Aculeata.

2 *With prickles.*

R. ramis aculeatis, petiolis pilosis, pedunculis unifloris, bracteis binis, fructu hirsuto. *Grossularia.*

R. *Branches prickly: fringe of the leaf-stalk hairy: berries hairy.*

ROUGH GOOSEBERRY. In hedges. Southwell. S. April.

HEDERA. *Smith.* 267. *With.* 267.

Cal. quinquedentatus, *Petala* 5, basi dilatata. *Bacca* pentasperma, calyce cincta.

Petals 5, *oblong.* Berry 4 *or* 5-*celled*; 3 *to* 5-*seeded: juiceless, encircled by the calyx.*

H. foliis ovatis lobatisque. *Helix.*

H. *Leaves, some egg-shaped, others lobed.*

COMMON IVY. Woods, hedges, and old buildings. Southwell Palace; Ruins of the Castle, Newark.

VINCA. *Smith.* 269. *With.* 268.

Cor. contorta, hyprocrateriformis, infera. *Folliculi* duo, erecti. *Semina* nuda.

Bloss. *salver-shaped.* Seed-vess. 2 *upright little bags.* Seeds *naked.*

V. caulibus procumbentibus, foliis elliptico-lanceolatis margine glabris, floribus pedunculatis, dentibus calycinis lanceolatis. *minor.*

V. *Stems trailing: leaves spear-egg-shaped: flowers on fruit-stalks.*

LESSER PERIWINCLE. Woods and hedges: not common. On Edingley Hill, near Farnsfield: Halam Hill, near Southwell. P. May.

V. caulibus erectiusculis, foliis ovatis ciliatis, floribus pedunculatis, dentibus calycinis setaceis elongatis. *major.*

V. *Stems upright: leaves egg-shaped: flowers on fruit-stalks.*

GREATER PERIWINCLE. Woods and hedges. In Kirklington Woods. P. May.

DIGYNIA.

HERNIARIA. *Smith.* 271. *With.* 269.

Cal. quinquepartitus, inferus. *Cor.* nulla. *Semina* squamis 5, filiformibus interjectis. *Caps.* monosperma calyce tecta.

Cal. *with 5 divisions.* Bloss. *none.* Stam. 5 *perfect, and 5 imperfect.* Caps. 1-*seeded.*

glabra. H. glabra herbacea.

H. *Plant smooth.*

SMOOTH RUPTURE WORT. In gravelly soils. Quonce Close, near Newark; and sandy closes thence towards Hawton. P. July, August.

CHENOPHODIUM. *Smith.* 272. *With.* 270.

Cal. quinquepartitus, inferus. *Cor.* nulla. *Semen* unicum, lenticulare, calyce clauso, pentagono, tectum.

Cal. *with 5 clefts and 5 ribs.* Bloss. *none.* Seed 1, *round but flatted, superiour, horizontal, covered by the closing calyx.*

* Foliis angulosis.

1 *Leaves angular.*

Bonus Henricus. C. foliis triangulari- sagittatis integerrimis, spicis compositis aphyllis.

C. *Leaves triangular-arrow-ſhaped, very entire: ſpikes compound, leafleſs: auxillary.*

PERENNIAL GOOSE-FOOT. MERCURY GOOSE-FOOT. Among rubbish; on road sides and walls; sometimes in pastures. In Southwell Church-yard.
P. May---Aug.

C. foliis rhomboideo-triangularibus sinuato-dentatis, racemis erectis compositis foliolosis. *rubrum.*

C. *Leaves heart-triangular, rather blunt, and toothed: bunches upright, compound, ſomewhat leafy, ſhorter than the ſtem.*

RED GOOSE-FOOT. Dunghills, rubbish, and cultivated ground. Southwell; Mansfield; Newark.
A. August.

C. foliis ovatis nitidis acutis dentatis, racemis ramosissimis cymosis aphyllis. *murale.*

C. *Leaves egg-ſhaped, ſhining, toothed, acute; bunches branching, leafleſs.*

NETTLE-LEAVED GOOSE-FOOT. Dunghills and rubbish. A. Aug. Sept.

C. foliis rhomboideo-ovatis erosis postice integris: superioribus oblongis integerrimis, seminibus lævibus. *album.*

C. *Leaves diamond-triangular, gnawed, entire behind; the uppermoſt oblong: bunches upright.*

WHITE GOOSE-FOOT. Cornfields, old dunghills, rubbish, and gardens; common. Southwell; Newark; Mansfield.

* * Foliis integris.

* *Leaves entire.*

olidum. C. foliis rhombeo-ovatis integerrimis, racemis conglomeratis.

C. *Leaves very entire, diamond-egg-shaped; flowers congregated auxillary.*

Ch. Vulvaria. LINN.

STINKING GOOSE-FOOT. Road sides, old walls, and rubbish. At Halam, on a bank near a nursery in the occupation of one Pradley; Rev. J. T. BECHER. Behind the Alms Houses and between Chapel Bar and the Sand Hills, at Nottingham. DERING.
A. August.

ULMUS. *Smith.* 281. *With.* 278.

Cal. quinquefidus, inferus, persistens *Cor.* nulla. *Capsula* membranacea, compresso-plana, monosperma.

Cal. *5-cleft.* Bloss. *none.* Caps. *superiour, 1-celled; leaf-like and compressed.* Seed *solitary.*

campestris. U. foliis duplicato-serratis scabris basi inæqualibus, floribus subsessilibus congestis.

U. *Leaves doubly serrated, unequal at the base: flowers almost sitting, crowded together.*

COMMON ELM. Hedge-rows; common.
T. April, May.

montana. U. foliis duplicato-serratis acuminatis basi inæqualibus, floribus pedunculatis effusis.

U. *Leaves doubly serrated, unequal at the base, egg-shaped, but taper-pointed; smooth.*

BROAD-LEAVED ELM. WYCH HAZEL. WYCH ELM. Woods and hedges. Less frequent than the preceding species. Between Newark and Balderton.
T. March, April.

CUSCUTA. *Smith.* 282. *With.* 209.

Cal. 4 vel 5-fidus, inferus. *Cor.* monopetala, 4 vel 5-fida. *Capsula* bilocularis, basi circumscissa. *Sem.* bina.

Cal. 4 *or* 5-*cleft.* Bloss. 1 *petal.* Caps. 2-*celled, cut round.* Seeds *in pairs.*

C. floribus sessilibus, staminibus basi squama crenata munitis, stigmatibus acutis. *Epithymum.*

C. *Flowers sitting, 5-clefted, surrounded by floral leaves.*

LESSER DODDER. Cornfields and heaths; not very common. Southwell. P. August.

GENTIANA. *Smith.* 284. *With.* 280.

Cor. basi tubulosa; poris nectariferis destituta. *Caps.* supera, unilocularis, bivalvis, polysperma.

Bloss. 1 *petal.* Recept. *of the seeds,* 2, *placed length-ways.* Caps. 2-*valved,* 1-*celled.*

G. corolla campanulata quinquefida, floribus pedunculatis, foliis linearibus. *Pneumonanthe.*

G. *Blossoms 5-cleft; bell-shaped; on fruit-stalks: leaves strap-shaped.*

MARSH GENTIAN. CALATHIAN VIOLET. Moist heaths. On the Moors of Langford and Stapleford, abundantly. A variety with white flowers, is found on these moors. P. August, Sept.

G. corolla quinquefida, hypocrateriformi fauce barbata, laciniis calycinis æqualibus. *Amarella.*

G. *Blossoms 5-cleft, salver-shaped: mouth bearded: calyx segments equal.*

AUTUMNAL GENTIAN. Dry pastures. mostly on calcareous soils. About Kirklington Temple; among limestone rocky ground about Mansfield, plentifully. A. August.

campestris. G. corolla quadrifida hypocrateriformi fauce barbata, laciniis caylcinis exterioribus maximis.

G. *Bloſſom* 4 *or* 5-*cleft*: *mouth bearded*: *calyx ſegments*, 2 *of them larger*.

FIELD GENTIAN. Mountainous pastures; rare; On the sides of the hills by the road from Markham Moor to Great Markham, near Tuxford. A. Sept.

HYDROCOTYLE. *Smith.* 290. *With.* 284.

Umbella simplex. *Invol.* tetraphyllum. *Petala* integra. *Fructus* orbiculatus, compressus.

Umbel *ſimple*, *on a foot-ſtalk*. Involucr. *of* 2 *or* 4 *leaves*. Petals *entire*. Fruit *compreſſed*, *bulging*, *diviſible into* 2 *parts*.

vulgaris. H. foliis peltatis, umbellis quinquefloris.

H. *Leaves target-ſhaped*, *notched*: *umbels* 5-*flowered*.

MARSH PENNYWORT. WHITE-ROT. Marshy grounds and ditches. In the Queence-hill Close, near Newark; Old Trent Ditches beyond the Bridge, particularly about Fidler's Bridge, on the Foot-road to Kelham; Marshes about Papplewick; Basford Scottum; Gravel-pits on Edingley Moors. P. May, June.

inundatum. H. foliis pinnatis incisis, submersis mutifido-capillaceis; umbellis quinquefloris binatis.

H. *Creeping*: *leaves under water*, *hair-like*; *those above*, *winged*: *umbels of* 2 *ſpokes*.

Sison inundatum. LINN. *With.*

FLOATING WHITE-ROT. Ditches, pools, and ground subject to inundation; not frequent. Gravel pits near Kirklington Mill. B. May.

SANICULA. *Smith.* 291. *With.* 284.

Umbellæ confertæ, subcapitatæ. *Petala* inflexa. *Fructus* setis uncinatis muricatus. *Flores* disci abortientes.

Umbellules *crowded, forming a kind of head.* Florets *of the centre barren.* Fruit *set with hooked prickles.*

S. foliis radicalibus simplicibus, floribus omnibus sessilibus. *europæa.*

S. *Root leaves simple: florets all sitting.*

WOOD SANICLE. Woods and thickets. In the Thickets near Oxton Toll-bar; Westhorpe Dumble, near Southwell; Halam and Edingley Hills, near Farnsfield; and in the following Woods, Kneeton, Flintham, Ossington, Wernham, Colwick, Broxtow, Lounds, Eakringbrail, Eperstone, Oxton, and Brockwood Hills. P. May.

CAUCALIS. *Smith.* 296. *With.* 287.

Involucra indivisa. *Corollæ* radiatæ. *Flores* disci masculi. *Fructus* subovatus, striatus, setis rigidis muricatus.

Blossom *radiated.* Florets *of the centre male.* Involucr. *leafits entire.* Petals *bent inwards, notched at the end.* Seeds *covered with prickles or briſtles.*

C. umbellis multifidis confertis, involucro polyphyllo, foliolis pinnatifidis, ramis erectiusculis. *Anthriscus.*

C. *Seeds oval, rough on the back, with ſcattered prickles.* LINN. *Involucrum many-*

leaved: seeds egg-shaped: styles reflected: leaves doubly compound: the terminating leafit strap-spear-shaped. Ait. H. Kew.

UPRIGHT HEDGE-PARSLEY. Hedges, common. Southwell; Newark. A. July.

DAUCUS. *Smith.* 300. *With.* 289.

Involucra pinnatafida. *Corollæ* subradiatæ. *Fructus* muricatus.

Bloss. *somewhat radiated, (generally) all the florets hermaphrodite.* Leafits *of the involucrum divided.* Seeds *with membranaceous toothed ridges.*

Carota. D. fructibus hispidis, petiolis subtus nervosis.

D. *Angles of the seeds* 4, *distant, hispid: leaf-stalks fibrous underneath: umbel concave when in seed.*

WILD CARROT. Borders of fields, and hedge banks; common. Southwell; Newark; Nottingham; Mansfield. B. June, July.

BUNIUM. *Smith.* 301. *With.* 291.

Corolla uniformis. *Umbella* conferta. *Fructus* ovatus.

Bloss. *uniform.* Umbel *crowded.* Styles *bent back, deciduous.* Seeds *rather cylindrical, scored, thicker towards the end.*

flexuosum. B. involucro subtriphyllo, caule basi aphyllo attenuato flexuoso.

B. *Involucrum from* 1 *to* 3 *leaves, deciduous: stem leafless at the base, tapering downwards, zig-zag: styles permanent.*

COMMON EARTH-NUT. KIPPER, or PIG-NUT. Meadows and pastures; frequent. Newark; Southwell. P. May, June.

CONIUM. *Smith.* 302. *With.* 292:

Involucella dimidiata, subtriphylla. *Fructus* ovatus, gibbus, utrinque quinque-costatus; costis ante maturitatem crispis. *Petala* æqualia.

Involucellum *going half-way round, of about 3 leaves.* Fruit *egg-ſhaped, bulging, ribs compreſſed, waved before the fruit is ripe.*

C. seminibus inermibus, caule ramosissimo nitido maculato. *maculatum.*

C. *Seeds without prickles: ſtem greatly branched, ſmooth, ſpotted.*

COMMON HEMLOCK. Hedges, orchards, rubbish, and cultivated ground. Newark; Southwell. P. July.

PEUCEDANUM. *Smith.* 304. *With.* 294.

Fructus ovatus, utrinque striatus, ala cinctus. *Calyx* quinquedentatus. *Involucra* brevissima. *Flores* disci abortivi.

Involucrums *very ſhort.* Fruit *elliptical, ſlightly ridged, compreſſed and bordered.*

P. foliolis pinnatifidis: laciniis oppositis decurrentibus, involucro universali subdiphyllo. *Silaus.*

P. *Leafits wing-cleft: segments opposite: involucrum of 2 leaves.*

MEADOW SAXIFRAGE, or SULPHUR-WORT. Moistish meadows and pastures. In the Meadows of Newark, and in Averham Meadow.

DEERING mentions P. OFFICINALE, as growing in Colwick Wood; which is so manifest an error, that I should not have bestowed an observation upon it, did I not find the same habitat given to the same plant in Turner's Botanist's Guide, with the name of MARTYN subjoined as an authority. P. August.

HERACLEUM. *Smith.* 306. *With.* 295.

Fructus ellipticus, emarginatus, compressus, striatus, margine dilatatus. *Flores* radiantes. *Petala* inflexo-emarginata. *Involucrum* caducum.

Involucr. *ſhedding.* Bloss. *irregular.* Petals *bent inwards, notched at the end.* Seeds *compreſſed, leaf-like, ſmooth, encompaſſed by a narrow membranaceous border.*

Sphondylium. H. foliis pinnatis: foliolis pinnatifidis incisis serratis.

H. *Leafits wing-cleft, even: flowers radiated.*

COMMON COW-PARSNEP. HOGWEED. In hedges, meadows, and pastures; common. Southwell; Newark. B. July.

ANGELICA. *Smith.* 311. *With.* 297.

Fructus subrotundus, solidus, utrinque trialatus. *Calyx* quinquedentatus. *Corollæ* æquales. *Petala* incurva. *Styli* reflexi.

Bloss. *equal.* Petals *bent inwards.* Styles *reflected.* Fruit *roundish.*

sylveſtris. A. foliolis æqualibus ovatis serratis.

A. *Leafits equal, egg-ſpear-ſhaped, ſerrated.*

WILD ANGELICA. Marshy woods and hedges; not uncommon. Westhorpe Dumal, near Southwell; Eperstone Wood. P. July.

SIUM. *Smith.* 312. *With.* 298.

Fructus subovatus, compressus, striatus. *Involucra* polyphylla. *Petala* cordata, uniformia.

Involucrum *many-leaved.* Petals *heart-ſhaped.* Styles *bent back.* Fruit *roundish.*

S foliis pinnatis: foliolis oblongo-lanceolatis æqualiter serratis. *latifolium.*

S. *Leaves winged: leafits egg-ſpear-ſhaped, regularly and ſharply ſerrated; the terminating leafit 3-cleft: umbels terminating.*

BROAD-LEAVED WATER PARSNEP. Rivers and deep ditches; not frequent. Old Trent Ditches, near Averham Meadows; Banks of the Greet, near Southwell. P. July, August.

S. foliis pinnatis: foliolis inæqualiter lobatis serratisque, umbellis pedunculatis oppositifoliis, caule erecto. *anguſtifolium.*

S. *Leaves winged, leafits irregularly jagged and ſerrated: involucrum wing-cleft: umbels on fruit-ſtalks, auxillary.*

NARROW-LEAVED WATER PARSNEP. In ditches and rivulets; with S. nodiflorum. In Ditches near Newark Bridge, and in the Parks at Southwell. P. July, August.

S. foliis pinnatis, foliolis ovatis æqualiter serratis, umbellis ſeſſilibus oppositifoliis, caule procumbente. *nodiflorum.*

S. *Leaves winged; leafits tooth-ſerrated: umbels lateral, oppoſite the leaves, ſitting or on fruit-ſtalks.*

CREEPING WATER PARSNEP. In rivers and ditches. Edingley Moors; Ditches in the Parks at Southwell; and by the side of the Road from Newark Bridge to Kelham. P. July, August.

SISON. *Smith.* 315. *With.* 300.

Fructus ovatus, striatus. *Involucra* subtetraphylla. *Petala* lanceolata, inflexa.

Involucrum *about* 4 *leaves.* Fruit *egg-ſhaped, ſcored.* Styles *bent back.*

Amomum. S. foliis pinnatis, umbellis erectis subquadriradiatis.

S. *Leaves winged: umbels upright.*

HEDGE HONE-WORT. BASTARD-STONE PARSLEY. Woods and hedges; not very common. Southwell; Newark.

ŒNANTHE. *Smith.* 317. *With.* 301.

Flosculi difformes; disci sessiles, steriles. *Fructus* calyce stylisque coronatus, cortice suberoso.

Florets *of different shapes, those in the centre sitting, barren.* Fruit *with a cork-like coat, oblong, scored; crowned by the styles and the calyx, which are permanent.*

fistulosa. Œ. stolonifera, foliis caulinis pinnatis filiformibus, fistulosis, involucro universali subnullo.

Œ. *sending forth suckers: stem leaves winged; thread-shaped; hollow.*

COMMON WATER DROP-WORT. Ponds and ditches; frequent. Newark and Averham Meadows; Meadow near the Cotton-mill at Southwell.

P. July, August.

peucedanifolia. Œ. foliolis omnibus lineraribus, involucro nullo, tuberibus radicalibus ellipticis sessilibus.

Œ. *Leafits all linear; general involucrum none: knobs of the root sessile, elliptical.* ENGLISH BOTANY.

SULPHUR-WORT. WATER DROP-WORT. Slow streams, ponds, and ditches; not very common. Halam Bottoms, and about the Cotton-mill at Southwell.

P. July.

PHELLANDRIUM. *Smith.* 321. *With.* 303.

Floſculi omnes fertiles; disci minores. *Fructus* ovatus, lævis, calyce stylisque coronatus.

Central florets *ſmalleſt*. Fruit *egg-ſhaped, ſmooth, crowned with the piſtil and the calyx.*

P. foliorum ramificationibus divaricatis. *aquaticum.*

P. *Ramifications of the leaves ſtraddling.*

WATER-HEMLOCK. In rivers, ditches, and pools; not common. Ditches in Mr. Bell's close, on the way to Averham Meadows; and near the River Trent, in Newark Meadow. B. June, July.

CICUTA. *Smith.* 322. *With.* 304.

Fructus subovatus, sulcatus. *Corolla* regularis.

Fruit *nearly egg-ſhaped; ribbed.*

C. umbellis oppositifoliis, stipulis petiolo adnatis obtusis. *virosa.*

C. *Umbels opposite the leaves: leaf-ſtalks bordered, blunt.*

WATER-HEMLOCK. WATER-COWBANE. Sides of pools and rivers; frequent. Southwell; Newark. P. August.

ŒTHUSA. *Smith.* 323. *With.* 304.

Fructus striatus. *Involucella* dimidiata, triphylla, pendula.

Involucellums *reaching half-way round*, 3-*leaved, bent downwards.* Fruit *nearly globular, deeply furrowed.*

Œ. foliis conformibus. *Cynapium.*

Œ. *All the leaves alike, fruit nearly globular.*

FOOL'S-PARSLEY. LESSER HEMLOCK. Cornfields, hedge banks, and kitchen gardens; common. Southwell; Newark. A. August, Sept.

SCANDIX. *Smith.* 323 *With.* 306.

Flores radiantes. *Petala* emarginata. *Fructus* subulatus. *Flores* disci sæpe masculi.

Bloss. *radiated.* Central Florets *frequently male.* Petals *notched at the end.* Styles *permanent.* Fruit *awl-shaped.*

Pecten. Veneris. S. seminibus longissime rostratis scabriusculis, foliolis linearis-multipartitis.

S. *Seeds with a very long beak: leafits with many fine divisions.*

NEEDLE-CHERVIL. VENUS'S-COMB. SHEPHERD'S NEEDLE. Cornfields; common. Southwell; Newark. A. June, July.

Anthriscus. S. seminibus ovatis hispidis, corollis uniformibus, caule lævi.

S. *Seeds egg-shaped, rough with hair: blossoms uniform: stem smooth.*

Caucalis scandicina. *With.*

ROUGH CHERVIL. Hedges and meadows. On Nottingham Castle Rock. A. May.

CHÆROPHYLLUM. *Smith.* 325. *With.* 308.

Petala cordata. *Fructus* oblongus, læviusculus. *Involucella* reflexa, concava.

Involucellum *reflected, concave.* Petals *heart-shaped, bent inwards.* Fruit *shining, generally smooth, oblong.*

sylvestre. C. caule striato lævi, geniculis tumidiusculis.

C. *Stem smoothish, scored, a little swollen at the knots.*

SMOOTH COW-PARSLEY. WILD CHERVIL.
Hedges; orchards and pastures; common. Southwell; Newark. P. April, May.

C. caule scabro, geniculis tumidis. *temulentum.*

C. *Stem spotted, joints swollen: stem and leaves rough: leafits cut, acute.*

ROUGH COW-PARSLEY. ROUGH CHERVIL.
Hedges; common. Southwell; Mansfield; Nottingham. B. June, July.

PASTINACA. *Smith.* 328. *With.* 309.

Fructus ellipticus, compresso-planus. *Petala* involuta, integra.

Petals *rolled inwards*; *entire*. Seeds *elliptical compressed, leaf-like, smooth*; *border thin, narrow.*

P. foliis simpliciter pinnatis subtus pubescentibus. *Sativa.*

P. *Leaves simply winged.*

WILD PARSNEP. Borders of ploughed fields, in limestone soils. By the side of the Road from Southwell to Averham, in many places. B. July.

SMYRNIUM. *Smith.* 328. *With.* 310.

Fructus oblongus, angulato-costatus. *Petala* acuminata, carinata, incurva.

Petals *keeled, tapering to a point.* Fruit *egg-globular, bulging, angular, with ribs.*

S. foliis caulinis ternatis petiolatis serratis. *Olusatrum.*

S. *Stem leaves growing by threes; on leaf-stalks; serrated.*

ALEXANDERS. Ditches and rocks; very rare. On Nottingham Castle Rock. B. May.

ANETHUM. *Smith.* 329. *With.* 310.

Fructus ovatus, subcompressus, striatus. *Petala* involuta, integra.

Petals *entire*; *rolled inwards.* Fruit *lentil-ſhaped, but compreſſed*; *ſmall, ſcored, bordered.*

Fœniculum. A. fructibus gibbis, foliis caulinis numerosis deflexis.

A. *Leaves with many diviſions, hair-like*: *ſeeds egg-oblong, tapering at each end, not bordered.*

COMMON FENNEL. Chalk cliffs; rare. Nottingham Castle Rocks. B. July, August.

CARUM. *Smith.* 330. *With.* 311.

Fructus elliptico-teres, striatus. *Petala* carinata, inflexo-emarginata. *Involucrum univerſale* sub-monophyllum.

Involucr. 1 *leaf.* Petals *united, bent inwards, notched at the end.* Fruit *ſmall, elliptical, bulging, roundiſh and ſcored.*

Carui. CARUM.

COMMON CARAWAY. Meadows and pastures; very rare. In that part of the meadow at Newark, near the River Trent, facing the entrance gate. B. June.

PIMPINELLA. *Smith.* 331. *With.* 311.

Fructus ovato-oblongus, striatus. *Petala* inflexa. *Stigmata* subglobosa.

Petals *bent inwards.* Styles *upright.* Summits *nearly globular.* Fruit *ſmall, egg-oblong* : *with 5 elevated ridges.*

P. foliis pinnatis: foliolis radicalibus subrotundis: summis linearibus. *saxifraga.*

P. *Leaves winged: leafits on the root-leaves roundish, thoſe of the upper ones ſtrap-ſhaped.*

COMMON BURNET SAXIFRAGE. Meadows and pastures; in gravelly or calcareous soils; not common. In Newark and Averham Meadows; Quonce Hill Close; Edingley Hill; Halam Hill

P. July, August.

P. foliis pinnatis: foliolis omnibus ovatis; impari trilobo. *magna.*

P. *Leaves uniform, winged; leafits ſpear-ſhaped, irregularly ſerrated; floral leaves wing-cleft.*

GREAT BURNET SAXIFRAGE. Woods and hedges; in limestone. Hedges about Southwell, and on the road from Oxton to Southwell; thickets near Oxton Toll bar; Eperstone Woods. P. July, August.

APIUM. *Smith.* 333. *With.* 314.

Fructus ovatus, costatus. *Petala* inflexa, æqualia. *Involucrum* monophyllum.

Involucr. 1 *leaf.* Petals *equal.* Fruit *ſmall, bulging, ribbed.* Styles *bent backwards.*

A. foliolis caulinis cuneiformibus, caule sulcato. *graveolens.*

A. *Stem leaves wedge-ſhaped.*

SMALLAGE. WILD CELERY. In ditches and marshes. Kirklington Toll-bar; Halam cross; by the side of Thurgarton water, opposite Mr. Brettle's garden wall; side of the Leen at Lenton, near Nottingham.

B. August.

ŒGOPODIUM. *Smith.* 33. *With.* 314.

Fructus ovato-oblongus, costatus. *Petala* inflexo-cordato, inæqualia.

Fruit *egg-oblong, scored; tapering at each end.*

Poda-graria. ŒGOPODIUM.

Œ. *Upper leaves* 3 *together, lower ones in triple threes.*

GOUT WEED. HERB GERARD. Hedges, orchards and pastures. Hedges about the Spring Gardens, near the Quonce Close, Newark, abundantly. P. May, June.

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3 TRIGYNIA.

VIBURNUM. *Smith.* 334. *With.* 315.

Cal. superus quinquepartitus. *Cor.* quinquefida. *Bacca* monosperma.

Cal. *with 5 divisions, superiour.* Bloss. *5-cleft.* Berry *of 1 cell; closed.* Seed 1.

Opulus: V. foliis lobatis, petiolis glandulosis.

V. *Leaves lobed: leaf-stalks set with glands.*

COMMON GUELDER ROSE. WATER ELDER. Woods and wet hedges; not common. Westhorpe Dumal, near Southwell; Hockerton; Kirklington. S. June.

SAMBUCUS. *Smith.* 335. *With.* 316.

Cal. superus, quinquepartitus. *Cor.* quinquefida. *Bacca* trisperma.

Cal. *5-toothed.* Bloss. *regular, with 5 shallow clefts.* Berry *juicy, closed, many-seeded.*

S. cymis tripartitis, stipulis foliaceis, caule herbaceo. *Ebulus.*

S. *Tufts with 3 divisions: stipulæ leaf-like: stem herbaceous.*

DWARF ELDER. DANE-WORT. Hedges; road sides; orchards: rare. In Bennet's Hop Yard Close, at Halam; by the side of the road at Gonalston Mill. At Gamston, and in Bunny Lane. DEERING. P. July.

S. cymis quinquepartitis, foliolis ovatis serratis, caule arboreo. *nigra.*

S. *Tufts with 5 divisions: leaves winged: leafits nearly egg-shaped, serrated: stem tree-like.*

COMMON ELDER. Woods and hedges; common. Southwell; Nottingham; Mansfield; Newark. S. April, May.

B. Sambucus fructu albo.

WHITE-BERRIED ELDER. In Graves-lane, near Edingley.

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4 TETRAGYNIA.

PARNASSIA. *Smith.* 339. *With.* 319.

Cal. quinquepartitus. *Pet.* quinque. *Nectaria* quinque, cordata, ciliata apicibus globosis. *Capsula* quadrivalvis.

Cal. *with 5 divisions.* Petals 5. Nectaries 5, *heart-shaped, fringed, with little balls on the top of the fringe.* Caps. *4-valved. 1-celled.* Seeds *with a membranaceous border.*

paluſtris. PARNASSIA.

P. *Nectaries ſimple.*

GRASS OF PARNASSUS. Moist meadows; somewhat rare. In the Parks at Southwell, and in the Meadow near the Water-mill; in a Close at Halam, with Pinguicula Vulgaris. In the Lawn at Kirklington, the seat of Mrs. Whetham; Bleasby; in the Dam Close at Papplewick. P. Sept. Oct.

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5 PENTAGYNIA.

LINUM. *Smith.* 339. *With.* 321.

Cal. pentaphyllus. *Pet.* quinque. *Capſula* supera, decemvalvis, decemlocularis. *Semina* solitaria.

Cal. *5-leaved.* Petals 5. Caps. *5-valved, 10-celled.* Seeds *ſolitary.*

catharticum. L. foliis oppositis obovato-lanceolatis, caule superne dichotomo, petalis acutis.

L. *Leaves oppoſite, egg-ſpear-ſhaped: ſtem forked: blossom pointed.*

PURGING FLAX. Dry meadows and pastures; frequent. Newark; Averham; Southwell.

A. June---August.

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6 HEXAGYNIA.

DROSERA. *Smith.* 346. *With.* 323.

Cal. quinquefidus. *Pet.* 5. *Capſula* unilocularis, trivalvis, supera, polysperma.

Calyx *with 5 divisions.* Petals 5. Caps. 1-*celled, with 5 valves at the top.* Seeds *several, fixed to the sides.*

D. foliis orbiculatis radicalibus, scapo racemoso. *rotundifolia.*

D. *Stalks from the root: leaves circular.* LINN. *Styles* 6. HUDS.

ROUND-LEAVED SUN-DEW. On mossy bogs, and moor grounds. Coddington; Stapleford and Langford Moors; Oxton Bottoms; Edingley Moor.
P. July, August.

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7 POLYGYNIA.

MYOSURUS. *Smith.* 348. *With.* 326.

Cal. pentaphyllus, basi appendiculatus. *Pet.* 5, ungue tubuloso, nectarifero. *Semina* numerosa, nuda.

Cal. 5 *leaves, united at the base, deciduous.* Nectaries 5, *like petals; awl-shaped.* Seeds *numerous, coated, pendant.*

MYSOSURUS. *minimus.*

MOUSE-TAIL. Cornfields, in a gravelly soil; but not common. Among cornfields at Upton near Southwell; At Coddington; and also in sandy ground belonging to my friend Mr. Jacob Ordoyno, who has observed it there for several years. At Normanton, near Southwell, the Rev. J. T. BECHER. This plant being an annual of humble growth, is frequently destroyed or buried for awhile by the operation of fallowing, so that it ocasionally disappears. A. May, June,

Classis VI.

HEXANDRIA.

Stamina 6.

MONOGYNIA.

Stylus 1.

* Fl. calyculati, calyce corollaque instructi.

1 *Flowers with a cup and a bloſſom.*

BERBERIS. *Cor.* hexapetala. *Cal.* hexaphyllus, inferus. *Bacca* disperma.

BERBERIS. Bloss. 6 *petals.* Cal. 6 *leaves; beneath.* Berry 2 *ſeeded.*

PEPLIS. *Cor.* hexapetala. *Cal.* decemfidus. *Caps.* bilocularis.

PEPLIS. Calyx 12-*cleft.* Caps. 2-*celled.*

* * Fl. spathacei sive glumacei.

2 *Flowers with a ſheaf or huſk.*

GALANTHUS. *Cor.* supera, hexapetala; petalis tribus interioribus brevioribus, emarginatis.

GALANTHUS. Bloss. *ſuperior; of* 6 *petals;* 3 *inner petals ſhorter, and notched at the end.*

NARCISSUS. *Cor.* supera, hexapetala. *Nectarium* campanulatum, petaliferum, stamina includens.

NARCISSUS. Bloss. *ſuperior*; *of* 6 *petals*. Nectary *bell-ſhaped*; *ſurrounding the ſtamens*.

ALLIUM. *Cor.* infera, hexapetala; petalis ovatis, ſeſſilibus.

ALLIUM. Bloss. *beneath*; *of* 6 *petals*. Petals *egg-ſhaped ſitting*.

* * * Fl. Nudi.

3 *Flowers naked*.

CONVALLARIA. *Cor.* infera, ſexfida. *Bacca* trilocularis. *Stigma* trigonum.

CONVALLARIA. Bloss. *beneath*; 6-*cleft*. Berry 3-*ſeeded*.

NARTHECIUM. *Cor.* infera, hexapetala, patens. *Sem.* appendiculata. *Stam.* hirſuta.

NARTHECIUM. Bloss. 6 *petals*. Style *none*. Seeds *with a tail at each end*.

ORNITHOGALUM. *Cor.* infera, hexapetala. *Stam.* baſi dilatata.

ORNITHOGALUM. Bloss. *beneath*; *of* 6 *petals*. Filaments *every other broader at the baſe*.

SCILLA. *Cor.* infera, hexapetala. *Stam.* filiformia.

SCILLA. Bloss. *beneath*; *of* 6 *petals*; *deciduous*. Filaments *thread-ſhaped*.

ACORUS. *Cor.* infera, hexapetala. *Spadix* multiflorus.

ACORUS. Spike-ſtalk *many-flowered*. Caps. 1-*celled*.

* * * * Fl. incompleti.

4 *Flowers without petals*.

JUNCUS. *Cal.* hexaphyllus. *Caps.* supera, trivalvis, polysperma.

JUNCUS. Calyx 6-*leaved.* Caps. 1-*celled.*

TRIGYNIA.

Styli 3.

COLCHICUM. *Cal.* spatha. *Cor.* hexapetaloidea.

COLCHICUM. Calyx *a ſheath.* Bloss. *like* 6 *petals.*

TRIGLOCHIN. *Cal.* triphyllus. *Pet.* tria. *Caps.* basi dehiscens.

TRIGLOCHIN. Calyx 3-*leaved.* Bloss. 3 *petals.* Caps. *opening at the baſe.*

RUMEX. *Cal.* triphyllus. *Pet.* tria. *Sem.* unicum, triquetrum.

RUMEX. Calyx 3-*leaved.* Bloss. 3 *petals.* Seeds 1; 3-*cornered.*

POLYGYNIA.

Styli plures.

ALISMA. *Cal.* triphyllus. *Pet.* tria. *Caps.* plures aggregatæ, monospermæ.

ALISMA. Calyx 3 *leaves.* Bloss. 3 *petals.* S. Vess. *ſeveral.*

VI HEXANDRIA.

1 MONOGYNIA.

GALANTHUS. *Smith.* 353. *With.* 331.

Cor. supera, hexapetala; petalis tribus interioribus brevioribus, emarginatis. *Stigma* simplex.

Petals 3, *concave.* Nectary 3 *smaller petals notched at the end.* Summit *undivided.*

GALANTHUS. *nivalis.*

SNOWDROP. Meadows, orchards, and sides of hedges. Hoveringham. P. February.

NARCISSUS. *Smith.* 353. *With.* 331.

Cor. supera, hexapetala, æqualis. *Nectarium* infundibuliforme, monophyllum, petaliferum. *Stamina* intra nectarium. *Stigma* trifidum.

Bloss. *superiour, of 6 equal petals.* Nectary *of 1 leaf, surrounding the stamens, mostly funnel-shaped.*

N. spatha uniflora, nectario campanulato erecto crispo obsolete sexfido petalis ovatis æquali. *Pseudonarcissus.*

N. *Sheath 1-flowered: nectary bell-shaped, upright, curled; as long as the petals: petals egg-shaped.*

COMMON DAFFODIL. In woods and meadows; not common. In a close behind the Thicket near Oxton Toll-bar. P. March.

ALLIUM. *Smith.* 355. *With.* 332.

Cor. infera, hexapetala, patens. *Spatha* bifida, multiflora. *Umbella* congesta. *Stigma* simplex.

Bloss. 6 *petals, expanding.* Sheath *dry and skin-like, many-flowered.* Umbel *crowded.* Caps. *superior, 3-celled.*

vineale. A. caule teretifolio bulbifero, staminibus tricuspidatis.

A. *Filaments 3-pointed.*

CROW GARLICK. Meadows and pastures. Newark; and Averham Meadows, beyond the Cotton Mill, in great abundance; Westhorpe, near Southwell. P. July.

ursinum. A. scapo nudo semicylindrico, foliis lanceolatis petiolatis, umbella fastigiata.

A. *Stalk 3-square: leaves spear-shaped, on leaf-stalks: umbel flat-topped.*

BROAD-LEAVED GARLICK RAMSONS. Woods and hedges. Hedges on the left-hand about a mile from Southwell on the Nottingham Road; and in the following Woods; Eperstone, Oxton, Colwick, Flintham, Loundes, and Broxtow. P. May, June.

ORNITHOGALUM. *Smith.* 362. *With.*

Cor. hexapetala, persistens, supra medium patens. *Filamenta* basi dilatata. *Capsula* supera, trilocularis. *Semina* subrotunda. *Cal.* nullus.

Bloss. 6 *petals, upright, permanent, above the middle expanding.* Filaments *the alternate ones dilated at the base.* Caps. *superior, 3-celled.*

umbellatum. O. floribus corymbosis, pedunculis scapum superantibus, filamentis subulato-dilatatis integerrimis.

O. *Flowers forming a corymbus; outer fruit-ſtalks taller than the central ones.*

COMMON STAR OF BETHLEHEM. Woods, meadows and pastures; rare. In the fields on the left hand side of a small stream, near the foot-road leading from Kirkby to Kirkby Hardwick, plentifully, and apparently wild. Rev. J. T. BECHER. P. April, May.

SCILLA. *Smith.* 366. *With.* 343.

Cor. hexapetala, patens. *Filamenta* filiformia. *Capſula* supera, trilocularis. *Semina* subrotunda. *Cal.* nullus.

Bloss. *bell-ſhaped, permanent.* Segments *rolled back.* Germen *with* 3 *nectariferous pores at the top.*

S. foliis linearibus, spica nutante, floribus cernuis campanulato-cylindricis apice reflexis, bracteis geminis. *nutans.*

S. *Bloſs tubular-bell-ſhaped, with* 6 *diviſions: ſegments rolled back: floral leaves in pairs.*

Hyacinthus nonscriptus. LINN. *With.*

HARE-BELL-SQUILL. WILD HYACINTH. Woods and hedges. In Eperstone, Flintham, Colwick, and Asply Woods; Thickets near Oxton Toll-bar; and Southwell. P. May.

NARTHECIUM. *Smith.* 368. *With.* 339.

Cor. hexapetala, patens, persistens. *Filamenta* filiformia, hirsuta. *Capsula* supera, prismatica. *Semina* utrinque appendiculata. *Cal.* nullus.

Bloss. 6 *petals, permanent.* Style *none.* Caps. *egg-ſhaped.* Seeds *tapering to each end.*

ossifra- NARTHECIUM.

gum. Anthericum ossifragum. LINN.

LANCASHIRE ASPPODEL. On turf bogs; very rare. Two plants were found on Coddington Moor, by Mr. JACOB ORDOYNO.

CONVALLARIA. *Smith.* 370. *With.* 341.

Cor. sexfida. *Cal.* nullus. *Stylus* staminibus longior. *Stigma* trigonum. *Bacca* supera, trilocularis, ante maturitatem maculata.

Bloss. 6-*cleft.* Berry 3-*celled, superior.* Seeds 2.

majalis. C. scapo nudo semicylindrico, floribus spicatis pedicellatis nutantibus.

C. *Stalk naked: semi-cylindrical, flowers spiked, nodding.*

LILY OF THE VALLEY. MAY LILY. Woods and heaths. In a wood called the Great Wood, about a mile on the right from Potter's Hill, going from Newark on the Lincoln road; in a valley at Cockglode, near Ollerton, plentifully. P. May.

ACORUS. *Smith* 373. *With.* 343.

Spadix cylindricus, tectus flosculis. *Cor.* hexapetala, nuda. *Stylus* nullus. *Capsula* trilocularis.

Spadix *cylindrical, covered with florets.* Bloss. 6 *petals, naked.* Style *none.* Caps. 3-*celled.*

Calamus. A. scapi mucrone longissimo foliaceo.

A. *Floral leaf very much longer than the spike.*

SWEET FLAG. Banks of rivers with a muddy bottom. By the side of the river Soar, in going to Swarstone Bridge, from Nottingham, in several places. P. June.

JUNCUS. *Smith.* 374. *With.* 344.

Cal. hexaphyllus, persistens. *Cor.* nulla. *Capsula* supera, trivalvis, uni-vel-trilocularis. *Semina* plurima. *Stigmata* tria.

Husk 2 *leaves.* Calyx 6-*leaved, permanent.* Bloss. *none.* Caps. *superiour,* 3-*celled,* 3-*valved, many-seeded; or else* 1-*celled, and* 3-*seeded.*

* Culmis nudis.

1 *Straw naked.*

J. culmo nudo stricto, panicula laterali conglobata, capsulis retusis, floribus triandris. *conglomeratus.*

J. *Straw stiff and straight: flowers in a lateral head; egg-shaped, blunt,* 3 *stamens in each.*

COMMON RUSH. Wet meadows and pastures; common. P. July.

J. culmo nudo stricto, panicula laterali effusa supradecomposita, capsulis obtusis. *effusus.*

J. *Straw stiff and straight: panicle lateral, loose: flowers egg-shaped, blunt,* 3 *stamens in each.*

SOFT RUSH. Wet meadows and pastures: P. July.

** Culmis foliosis.

2 *Straws leafy.*

J. foliis nodoso-articulatis, capitulis paniculatis multifloris. *articulatis.*

J. *Leaves with knot-like joints: flowers panicled: petals blunt.*

JOINTED RUSH. Meadows and pastures. P. June.

bulbosus. J. foliis linearibus canaliculatis, culmo basi folioso, panicula cymosa, capsulis obtusis.

J. *Straw undivided, somwhat compressed: leaves strap-shaped, channelled: panicle terminating, shorter than the floral leaf: cups and capsules blunt.*

ROUND-FRUITED RUSH. Wet meadows and heaths; In Mr. Kirk's Greet Meadow at Normanton, near the foot-path; and in the Parks, adjoining the Bleach-yard close, Southwell. P. July.

bufonius. J. foliis linearibus canaliculatis, culmo dichotomo racemoso, floribus solitariis.

J. *Straw forked: flowers solitary, sitting: calyx leafits spear-shaped, sharp-pointed: capsule egg-shaped, shorter than the calyx.*

TOAD RUSH. Wet gravelly sandy meadows or pastures. A. July, August.

pilosus. J. foliis planis pilosis, panicula cymosa divaricata, floribus solitariis.

J. *Leaves flat, hairy: corymbus branching.* LINN. *Flowers solitary.* HUD.

HAIRY RUSH. Woods; common. P. April, May.

sylvaticus. J. foliis planis pilosis acuminatis, panicula cymosa decomposita, floribus fasciculatis.

J. *Leaves flat, hairy: panicle terminating, very much branched: flowers* 1, 2, *or* 3 *together.*

J. maritimus. *With.*

WOOD RUSH. Woods and hedges; not common. Eperstone Wood. P. May, June.

campestris. J. foliis planis pilosis, spicis terminalibus sessilibus pedunculatisque, capsulis obtusis.

J. *Leaves flat, somewhat hairy: spikes sitting, and on fruit-stalks.*

HAIRY-FIELD RUSH. Pastures, meadows and heaths; common. P. April, May.

BERBERIS. *Smith.* 387. *With.* 351.

Cal. hexaphyllus. *Petala* 6; ad ungues glandulis duabus. *Stylus* nullus. *Bacca* supera, disperma.

Calyx 6-*leaved.* Petals 6, *with* 2 *glands to the claw.* Style *none.* Berry *superior,* 1-*celled; open at the end.* Seeds 2 *or* 3.

B. floribus racemosis, spinis triplicibus, foliorum serraturis aristatis. *vulgaris.*

B. *Fruit-stalks forming bunches; thorns* 3 *together.*

BARBERRY. Woods and hedges; not common. Holt side, at Normanton, near Southwell; in a hedge about half-way between Retford and Worksop, opposite Mr. Foljambe's house, at Osberton; hedge in the churchyard at Holme Pierrepont, near Nottingham; Fiskerton-upon-Trent. S. May, June.

PEPLIS. *Smith.* 389. *With.* 352.

Cal. campanulatus, ore duodecimfido, *Petala* 6, calyci inserta. *Capsula* supera, biloculari.

Calyx *bell-shaped, rim* 12-*cleft.* Petals *none, or* 6, *fixed to the cup.* Caps. *superior,* 2-*celled, many-seeded.*

P. floribus subapetalis foliis obovatis. *Portula.*

P. *Flowers often without petals.*

WATER-PURSLANE. Marshy and watery places, especially such as become dry in Summer. On the Moors of Stapleford, Coddington, and Langford; Farnsfield Carr; Edingley Moor. A. July, Aug.

TRIGYNIA.

RUMEX. *Smith.* 390. *With.* 353.

Cal. triphyllus. *Petala* 3, conniventia. *Semen* unicum, triquetrum, superum, nudum. *Stigmata* multifida.

Calyx 3-*leaved*. Petals 3, *closing*. Seed 1, *three-cornered, inclosed in the blossom.*

* Flores hermaphroditici.

1 *Flowers hermaphrodite.*

sanguineus. R. valvulis integerrimis oblongis, unica præcipue granifera, foliis cordato-lanceolatis.

R. *Valves very entire: leaves heart-spear-shaped.*

BLOODY-VEINED DOCK. Woods and road sides; not common. Farm yards at Mansfield. DEERING. MARTYN.

crispus. R. valvulis ovatis integris omnibus granifer-rus, foliis lanceolatis undulatis acutis.

R. *Valves strongly veined: leaves spear-shaped, acute, waved and curled at the edge.*

CURLED DOCK. Meadows, pastures, road sides, and cultivated ground; in almost all soils; common. P. June, July.

R. valvulis oblongis subdentatis omnibus graniferis, foliis cordato-oblongis acuminatis, racemis foliolosis. *acutus.*

R. *Valves veinless: leaves oval-spear-shaped, uneven at the edges.*

SMOOTH SHARP DOCK. Woods, hedges, road sides and rivers; sometimes in fields and meadows; common. P. July.

R. valvulis dentatis unica præcipue granifera, foliis radicalibus cordatis obtusis, caule scabriusculo. *obtusifolius.*

R. *Leaves heart-oblong, bluntish, finely notched.*

BROAD-LEAVED DOCK. Among rubbish, farm yards, courts, and sides of ditches; common. P. July, August.

R. valvulis deltoideis setaceo-dentatis graniferis, foliis lineaeribus, verticillis confertis. *maritimus.*

R. *Leaves strap-shaped: flowers in distant whirls.*

GOLDEN DOCK. Road sides and among rubbish; not common. By the side of the River Leen, at Snenton, in going from the Meadows to the Trent. DEERING MARTYN. P. July, August.

R. valvulis ovatis integris obsolete graniferis, foliis cordato-lanceolatis acutis. *aquaticus.*

R. *Leaves spear-shaped, smooth, acute, very entire, tapering at the base.*

R. Hydrolapathum. *With.*

GREAT WATER-DOCK. Peat marshes, wet ditches, pools, and sides of rivers. Edingley Moor. P. July, August.

* * Flores diclini.

2 *Male and female flowers on distant plants.*

Acetosa. R. floribus dioicis, foliis oblongis sagittatis valvulis graniferis.

R. *Leaves oblong, arrow-shaped.*

COMMON SORREL. Meadows and pastures; common. Newark; Southwell; Mansfield; Nottingham. P. June.

Acetosella. R. floribus dioicis, foliis lanceolato-hastatis, valvulis grano destitutis.

R. *Leaves spear-halbert-shaped.*

SHEEP'S SORREL. Sandy meadows and pastures, in gravelly soil. Farnsfield; Blidworth. P. May, June.

TRIGLOCHIN. *Smith.* 398. *With.* 359.

Cal. triphyllus. *Petala* tria, calyciformia. *Styli* nulli. *Capsulæ* superæ, basi dehiscente. *Semina* solitaria.

Cal. 3-*leaved.* Petals 3, *like a cup.* Style *none.* Caps. *opening at the base.*

palustre. T. capsulis trilocularibus sublinearibus.

T. *Capsule* 3-*celled, nearly strap-shaped.*

MARSH ARROW-GRASS. Wet meadows and pastures. In the Parks at Southwell; Edingley Moor; Oxton Stews. P. July.

COLCHICUM. *Smith.* 399. *With.* 359.

Cal. spatha. *Cor.* sexpartita, tubo radicali. *Capsulæ* tres, superæ, connexæ, inflatæ, polyspermæ.

Calyx *none.* Bloss. *with* 6 *divisions.* Tube *very long, extending down to the root.* Caps. 3, *inflated, united.*

C. foliis planis lanceolatis erectis. *autumnale.*

C. *Leaves flat, spear-shaped, upright.*

MEADOW SAFFRON. Meadows in a rich soil. In the Meadows at Newark, abundantly; in Holme Meadows beyond Winthorpe, near the River; In the Meadows at Winkburn, the seat of Peter Pegge Burnell, Esquire. P. September.

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3 POLYGYNIA.

ALISMA. *Smith.* 400. *With.* 361.

Cal. triphyllus. *Petala* tria. *Capsulæ* plures, aggregatæ, submonospermæ.

Calyx 3-*leaved.* Petals 3. Seeds *many.*

A. foliis ovatis acutis, capsulis obtuse trigonis. *Plantago.*

A. *Leaves egg-shaped, acute: fruit with* 3 *blunt corners.*

GREATER WATER PLANTAIN. Ditches and watery places. In the Old Trent Ditches about Newark, by the Road side. P. July.

A. foliis lineari-lanceolatis, capsulis pentagonis incurvis globoso-aggregatis. *ranunculoides.*

A. *Leaves strap-spear-shaped, on leaf-stalks: fruit globular, scurfy.*

SMALL WATER PLANTAIN. Wet turfy bogs. In old Gravel-pits near Kirklington Mill; on Edingley Moor; in a Ditch near a Cottage on Langford Moor, Trent side, between Clifton Hill and Nottingham. DEERING. P. August.

Classis VIII.

OCTANDRIA.

Stamina 8.

MONOGYNIA.

Stylus 1.

* Fl. completi.

1 *Flowers complete.*

ACER. *Pet.* quinque. *Cal.* quinquefidus, inferus. *Caps.* monospermæ, alatæ.

ACER. Male flowers *many*. Bloss. *5 petals*. Cal. *5-cleft*. Capsules 2 *or* 3; 1 *seed in each*; *winged with a membrane at the end*.

EPILOBIUM. *Pet.* quatuor. *Cal.* quadrifidus, superus. *Caps.* quidrilocularis. *Sem.* papposa.

EPILOBIUM. Bloss. 4 *petals*. Cal *with* 4 *divisions, superiour*. Caps. 4-*celled*. Seeds *downy*.

CHLORA. *Cor.* octopartita. *Cal.* octophyllus, inferus. *Caps.* unilocularis.

CHLORA. Bloss. 8-*cleft*. Cal. 8 *leaves, beneath*. Caps. 1-*celled*: 2-*valved*: *many-seeded*.

VACCINIUM. *Cor.* monopetala. *Cal.* quadridentatus, superus. *Bacca.*

VACCINIUM. Bloss. 8-*cleft*. Cal. 4-*toothed*: *superiour*. Anthers *awned in the middle*. Fruit *a Berry*.

ERICA. *Cor.* monopetala. *Cal.* tetraphyllus, inferus. *Capsula.*

ERICA. Bloss. 4-*cleft*. Cal. 4 *leaves*; *beneath*. Anthers *cloven*. Caps. *many-seeded*.

* * Fl. incompleti.

2 *Flowers incomplete.*

DAPHNE. *Cal.* corollinus, quadrifidus, inferus. *Bacca* monosperma.

DAPHNE. Cal. 4-*cleft*; *equal*; *resembling a blossom*. Stamens *inclosed*. Berry *pulpy*.

TRIGYNIA.

Styli 3.

POLYGONUM. *Cal.* quinquepartitus, corollinus, inferus. *Cor.* nulla. *Sem.* unicum, nudum.

POLYGONUM. Cal. *with* 5 *divisions*; *coloured*. Bloss. *none*. Seed 1. *naked*.

TETRAGYNIA.

Styli 4.

ADOXA. *Cal.* semiinferus. *Cor.* supera, quadri- vel quinque-fida. *Caps.* calyce tecta.

ADOXA. Bloss. *superiour*; 4 *or* 5-*cleft*. Cal. 2 *leaves*. Berry *with* 4 *or* 5 *seeds*.

PARIS. *Cal* tetraphyllus. *Pet.* quatuor. *Becca* supera.

PARIS. Bloss. 4 *petals*; *awl-shaped*; Cal. 4-*leaved*. Berry 4 *seeded*.

VIII OCTANDRIA.

1 MONOGYNIA.

EPILOBIUM. *Smith.* 409. *With.* 366.

Cal. quadrifidus. *Petala* quatuor. *Capsula* oblonga, infera. *Semina* papposa.

Cal. 4-*leaved*, *deciduous*. Petals 4. Caps. *beneath*, 4-*celled*, *very long*. Seeds *many*, *downy at the top*.

hirsutum. E. foliis semiamplexicaulibus ovato-lanceolatis hirsutis, caule ramosissimo, radice repente.

E. *Leaves egg-spear-shaped*, *hairy*, *half embracing the stem*: *Stem very much branched and hairy*.

GREAT HAIRY WILLOW-HERB. CODLINGS AND CREAM. Moist hedges, ditches, banks of brooks, rivers, and lakes; common. Newark; Southwell. P. July.

E. foliis sessilibus lanceolatis pubescentibus, caule subsimplici villoso, radice fibrosa. *parviflorum.*

E. *Leaves spear-shaped, pubescent, nearly sitting; stem hairy, unbranched.*

SMALL-FLOWERED HOARY WILLOW-HERB. Watery places, and Banks of ditches and rivers; common. Southwell; Newark. P. July.

E. foliis petiolatis ovatis dentatis, caule tereti, stigmate quadripartito. *montanum.*

E. *Leaves opposite, egg-shaped, toothed; the upper ones alternate: stem cylindrical.*

BROAD SMOOTH-LEAVED WILLOW-HERB. In woods, hedge rows, shady lanes, and moist meadows. On Edingley Hill; Eperstone Park. P. July.

E. foliis lanceolatis, denticulatis, caule tetragono, stigmate indiviso. *tetragonum.*

E. *Leaves spear-shaped, finely toothed, the lowermost opposite: stem 4-cornered: summit entire.* CURT.

SQUARE-STALKED WILLOW-HERB. Marshes and sides of rivulets and ditches; frequent. P. July.

E. foliis sessilibus lanceolatis subdenticulatis, caule tereti, stigmate indiviso. *palustre.*

E. *Leaves opposite spear-shaped, very entire: petals notched at the end: stem upright.*

ROUND-STALKED MARSH WILLOW-HERB. Marshes, bogs, and sides of lakes. On Edingley Moors, near Farnsfield; Oxton bottoms. P. July.

CHLORA. *Smith.* 413. *With.* 369.

Cal. octophyllus. *Cor.* octopartita. *Stigma* quadrifidum. *Capsula* supera, unilocularis, bivalvis, polysperma.

Cal. 8-*leaved.* Bloss. 1 *petal,* 6 *or* 8 *cleft.* Caps. 1-*celled,* 2-*valved, many-seeded.*

perfoliata. C. foliis perfoliatis.

C. *Leaves perforated.*

YELLOW CENTAURY. In clayey or marly grounds; mountainous meadows and pastures, in a calcareous soil. Southwell; Winkburn; Halam; Kirklington; sides of the hill near Oxton Toll-bar. A. July, Aug.

VACCINIUM. *Smith.* 414. *With.* 370.

Cor. monopetala. *Stamina* receptaculo inserta. *Antheræ* apice poris duobus. *Bacca* infera, quadrilocularis, polysperma.

Calyx *supeaiour.* Bloss. 1 *petal.* Filaments *fixed to the receptacle* Berry 4-*celled, many-seeded; beneath; dimpled.*

* Foliis deciduis.

1 *Leaves annual, or deciduous.*

Myrtillus. V. pedunculis unifloris, foliis ovatis serratis deciduis, caule angulato.

V. *Fruit-stalks* 1-*flowered; leaves serrated, egg-shaped; stem angular.*

BILBERRY or BLEABERRY. In moistish woods, heaths and pastures; and tops of mountains; somewhat rare. On Mansfield Forest, particularly about Thompson's Grave. S. April, May.

* * Foliis sempervirentibus.

2 *Leaves evergreen.*

V. foliis ovatis integerrimis revolutis acutis, caulibus repentibus filiformibus glabris. *Oxycoccus.*

V. *Fruit-stalks single, or in pairs: leaves egg-shaped, very entire, edges rolled back: stem thread-shaped, trailing, not hairy.*

CRANBERRY. MOSS-BERRIES. MOOR-BERRIES. Peaty bogs, and on Moors; not common. Oxton Bottoms. P. June.

ERICA. *Smith.* 417. *With.* 372.

Cal. tetraphyllus. *Cor.* quadrifida. *Stamina* receptaculo inserta. *Antheræ* poris duobus. *Capsula* supera, quadrilocularis, polysperma.

Cal. 4-*leaved.* Bloss. 4-*cleft.* Filaments *fixed to the receptacle.* Anthers *cloven and perforated at the top.* Caps 4-*celled,* 4-*valved, many seeded.*

* Antheris aristatis.

1 *Anthers with 2 tooth-serrated awns at the base*

E. Antheris aristatis inclusis, stylo exserto, corolla quadripartita calyce breviore, foliis oppositis calcaratis. *vulgaris.*

E. *Leaves arrow-shaped.*

COMMON HEATH, or LING. Heaths and woods; common. S. June, July.

E. Antheris aristatis, stylo incluso, corolla ovata, foliis quaternis ciliatis, floribus capitatis. *Tetralix.*

E. *Leaves oblong, fringed, cottony uuderneath: flowers in umbels: cups fringed, and cottony.*

CROSS-LEAVED HEATH. Moist heaths; not uncommon. Oxton Bottoms; Coddington Moors. S. July, August.

* * Antheris cristatis.

2 *Anthers with 2 toothed-serrated awns at the base.*

cinerea. E. antheris cristatis, stylo subexserto, stigmate capitato, corolla ovata, foliis ternis.

E. *Leaves spear-shaped, entire, smooth: flowers in umbels, egg-shaped: cups finely serrated: branches woolly.*

FINE-LEAVED HEATH. Oxton Bottoms; Stapleford Moor. S. July, Aug.

DAPHNE. *Smith.* 420. *With.* 376.

Cal. corollinus, quadrifidus, marcescens, stamina includens. *Bacca* monosperma.

Calyx *generally none.* Bloss. 1 *petal, regular,* 4-*cleft, funnel-shaped* Drupa *like a berry,* 1-*celled, superiour.*

Laureola. D. racemis axillaribus subquinquefloris, foliis lanceolatis glabris.

D. *Bunches of about 5 flowers, axillary: leaves spear-shaped, smooth.*

SPURGE LAUREL. Woods and hedges; not common. In Kirklington, Winkburn, and Halloughton Woods. S. March.

ACER. *Smith.* 421. *With.* 368.

Cal. quinquefidus. *Petala* 5. *Capsulæ* 2, vel 3, super, monospermæ, ala terminatæ.

Calyx 5-*cleft*. Bloss. 5 *petals*. Caps. 2 *or* 3; 1-*seeded*; *ending in a leaf-like expansion*.

Flores aliquot masculi.

Male flowers intermixed.

A, foliis quinqueglobis, inæqualiter serratis, racemis pendulis. *Pseudo-platanus.*

A. *Leaves* 5-*lobed, blunt, unequally serrated; flowers in compound, pendent bunches*

GREATER MAPLE. SYCAMORE. Woods, hedges. Southwell; Newark. T. May, June.

A. foliis lobatis obtusis incisis, racemis erectis. *campestre.*

A. *Leaves* 5 *lobed, very entire: the lower lobes notched: corymbus with* 3 *divisions, upright:*

COMMON MAPLE. Hedges and thickets; common; S. May, June.

II. TRIGYNIA.

POLYGONUM. *Smith.* 423. *With.* 379.

Cal. quinquepartitus, coloratus, corolinus, persistens. *Semen* unicum, superum, angulatum, calyce tectum. *Stamina* et *pistilla* numero incerta.

Cal. *none:* Bloss. *resembling a cup, with* 5 *divisions.* Seed 1, *angular*; *generally naked.*

* Digyna.

1 *Flowers with two pistils.*

amphibium. P. floribus pentandris semidigynis, spica ovata.

P. *Style cloven: spike egg-shaped.*

AMPHIBIOUS PERSICARIA. In cultivated ground, and in ditches. Newark. P. July, August.

Persicaria. P. floribus hexandris semi-digynis, spicis ovato-oblongis, erectis, pedunculis lævibus stipulis ciliatis. CURT.

P. *Styles 2: spikes egg-oblong: leaves spear-shaped: stipulæ fringed.*

SPOTTED ARSMART. Ditches on the side of water, and sometimes in cornfields. Newark. A. July, Aug.

Hydropiper. P. floribus hexandris semidigynis, foliis lanceolatis undulatis immaculatis, spicis filiformibus nutantibus, caule erecto.

P. *Flowers with cloven pistils: stipulæ somewhat fringed: leaves spear-shaped.*

BITING PERSICARIA. Watery places, on the sides of rivulets, lakes, and ditches; frequent. A. Sept.

** Trigyna.

2 *Flowers with 3 pistils.*

Bistorta. P. caule simplicissimo monostachyo, foliis ovatis undulatis in petiolum decurrentibus.

P. *Leaves egg-shaped, extended at the base along the footstalks.*

GREAT BISTORT, or SNAKEWEED. Moist meadows. In a Close between the Leen and Lenton Churchyard. DEERING. P. June.

P. folibus axillaribus, foliis elliptico-lanceolatis margine scabris, stipularum nervis remotis, caule procumbente herbaceo. *aviculare.*

P. *Flowers axillary: leaves spear-shaped: stem trailing.*

KNOT-GRASS. Road sides, paths, streets, and cornfields; common. A. April---Oct.

P. foliis cordato-sagittatis, caule erectiusculo inermi, seminum angulis æqualibus. *Fagopyrum.*

P. *Leaves heart-arrow-shaped: stem nearly upright; without prickles: angles of the seeds equal*

BUCK-WHEAT. Cornfields. About Sir Richard Sutton's, Temple, on Sherwood Forest; Bridworth; Cumber. A. July, August.

P. foliis cordato-sagittatis, caule volubili angulato, laciniis calycinis obtuse carinatis. *Convolvulus.*

P. *Leaves heart-shaped: stem twining, angular: flowers blunted.*

CLIMBING BUCK-WHEAT. BLACK BINDWEED. Cornfields, gardens, and hedges; common. A. June, July.

IV TETRAGYNIA.

PARIS. *Smith.* 431. *With.* 385.

Cal. tetraphyllus. *Petala* 4, angustiora. *Bacca* supera, quadrilocularis. *Antheræ* mediis filamentis adnatæ.

Calyx 4 *leaved.* Petals 4, *narrower.* Berry 4 *celled.*

quadrifolia. PARIS.

P. *Stem-leaves generally* 4.

HERB-PARIS. TRUE LOVE. ONE BERRY. In woods and shady places. Thickets near Oxton Tollbar; and in the following Woods; Eperstone, Lounder, Colwick, Manzer-gorze. P. May.

ADOXA. *Smith.* 432. *With.* 386.

Cal. bifidus vel trifidus, semiinferus. *Cor.* quadri-vel, quinque-fida, supera. *Capsula* quadri vel quinque locularis, calyce coalita.

Cal. *cloven*; *beneath.* Bloss. 4 *or* 5 *cleft*; *superior.* Berry 4 *celled*; *united to the cup.*

Moschatellina. ADOXA.

TUBEROUS MOSCHATELL. Damp woods and shady places; not frequent. Oxton Stews; shady Banks in the Marshes at Mansfield, Basford Scottum. DERING. P. April, May.

Classis IX.

ENNEANDRIA.

Stamina 9.

HEXAGYNIA.

Styli 6.

BUTOMUS. *Cal.* nullus. *Pet.* sex. *Caps.* sex, poly-spermæ.

BUTOMUS. Involucr. *simple*; *of* 3 *leaves*. Bloss. 6 *petals*. Caps. 6. Seeds *many*.

IX ENNEANDRIA.

1 HEXAGYNIA.

BUTOMUS. *Smith.* 436. *With.* 393.

Cal. nullus *Petala* 6. *Capsulæ* 6. superæ, polyspermæ.

Involucrum *simple*; *of* 3 *leaves*. Petals 6. Caps. 6 *many seeded*. Seeds *fixed to the sides of the capsules*.

umbellatus. BUTOMUS.

WATER GLADIOLE. FLOWERING RUSH. Slow streams and muddy ditches; not common. Kelham Bridge; and on the Banks of the Trent in other places; Banks of the River Devon, at Markham Bridge.

P. June, July.

Classis X.

DECANDRIA.

Stamina 10.

DIGYNIA.

Styli 2.

SCLERANTHUS. *Cor.* nulla. *Cal.* monophyllus. *Sem.* duo.

SCLERANTHUS. Bloss. *none.* Calyx *5-cleft: superiour.* Seeds 2.

CHRYSOSPLENIUM. *Cor.* nulla. *Cal.* corolatus. *Caps.* birostris, polysperma.

CHRYSOSPLENIUM. Bloss. *none.* Calyx *superiour.* Caps. *2-celled: 2-beaked.*

SAXIFRAGA. *Pet.* quinque. *Cal.* quinquepartitus. *Caps.* birostris, polysperma.

SAXIFRAGA. Bloss. *5 petals.* Calyx *with 5 divisions.* Caps. *1-celled*; *2-beaked.*

SAPONARIA. *Pet.* quinque. *Cal.* monophyllus, basi nudus. *Caps.* oblonga.

SAPONARIA. Bloss *5 petals.* Calyx *tubular*; *naked at the base.* Caps. *1-celled*; *oblong.*

DIANTHUS, *Pet.* quinque. *Cal.* monophyllus, basi squamosus. *Caps.* oblonga.

DIANTHUS. Bloss. *5 petals.* Calyx *tubular*; *with scales at the base.* Caps. 1-*celled*; *oblong.*

TRIGYNIA.

Styli 3.

ARENARIA. *Caps.* unilocularis. *Pet.* integra, patentia.

ARENARIA. Caps. 1-*celled.* Petals *entire*: *expanding.*

STELLARIA. *Caps.* uniloc. *Pet.* bipartita, patentia.

STELLARIA. Caps. 1-*celled.* Petals *deeply divided*; *expanding.*

CUCUBALUS. *Bacca* uniloc. *Pet.* bifida, unguiculata.

CUCUBALUS. Caps. 3-*celled.* Petals *cloven.* Mouth *naked.*

SILENE. *Caps.* semitrilocularis. *Pet.* bifida, unguiculata. *Cal.* monophyllus.

SILENE. Caps. 1 *to* 3 *cells.* Petals *(mostly) cloven.* Mouth *crowned.*

PENTAGYNIA.

Styli 5.

SEDUM. *Caps.* quinque, squama nectarifera ad basin. *Cor.* pentapetala.

SEDUM. Caps. 5, *adjoining the nectaries.* Bloss. 5 *petals.*

OXALIS. *Caps.* quinquelocularis, angulata. *Sem.* bina, arillata. *Pet.* basi connexa.

OXALIS. Caps. 5-*celled*; *angular.* Bloss. *petals connected at the base.*

LYCHNIS. *Caps.* quinque vel uni-locularis, polysperma. *Cal.* tubulosus, membranaceus.

LYCHNIS. Caps. 1, 3, *or* 5-*celled*; *oblong.* Calyx *oblong*; *membranaceous.*

AGROSTEMMA. *Caps.* unilocularis. *Cal.* tubulosus, coriaceous.

AGROSTEMMA. Caps. 1-*cell*; *oblong.* Calyx *tubular*; *membranaceous.*

CERASTIUM. *Caps.* unilocularis. *Pet.* bifida. *Cal.* pentaphyllus.

CERASTIUM. Caps. 1-*celled.* Petals *cloven.* Calyx 5-*leaved.*

SPERGULA. *Caps.* unilocularis. *Pet.* integra. *Cal.* pentaphyllus.

SPERGULA. Caps. 1-*celled.* Petals *entire.* Calyx 5-*leaved.*

x DECANDRIA.

1 DIGYNIA.

CHRYSOSPLENIUM. *Smith.* 447. *With.* 401.

Cal. quadrifidus seu quinquefidus, coloratus. *Cor.* nulla. *Capsula* birostris, unilocularis, semiinferus, semibivalvis, polysperma.

Cal. *coloured, 4 or 5-cleft.* Bloss. *none.* Caps. *2-beaked, 1-celled, many seeded, partly beneath; division of the valves extending but half-way down.*

alterni-folium. C. foliis alternis.

C. *Leaves alternate.*

ALTERNATE-LEAVED GOLDEN SAXIFRAGE. In wet shady woods, with C. oppositifolium, but less frequent. In a Ditch at the bottom of Eperstone Wood. P. May.

oppositi-folium. C. foliis oppositis.

C. *Leaves opposite.*

OPPOSITE-LEAVED GOLDEN SAXIFRAGE. Moist shady places, sides of boggy rivulets and springs. Pond-head, Oxton Bottoms; in a Ditch at the bottom of Eperstone Wood, with C. alternifolium. P. April, May.

SAXIFRAGA. *Smith.* 448. *With.* 402.

Cal. quinquefidus, persistens. *Cor.* pentapetala. *Capsula* birostris, unilocularis, polysperma, inter rostra dehiscens.

Calyx *5-toothed.* Bloss. *5 petals.* Caps. *beneath*: *2-beaked, 2-celled, many-seeded, opening with a hole between the styles.*

Foliis lobatis.

Leaves lobed: stem upright.

S. foliis reniformibus lobatis, caule paniculato, radice granulata, germine semiinfero. *granulata.*

S. *Stem leaves kidney-shaped, gashed: stem branched: root beaded.*

WHITE SAXIFRAGE. Dry meadows and pastures. Southwell; in the Quonce Close, in Newark; Averham Meadows; Edingley Hill; Kirklington.
P. April, May.

S. foliis cuneiformibus trifidis quinquefidisve alternis: summis indivisis, caule paniculato, germine infero. *tridactylites.*

S. *Stem-leaves wedge-shaped, alternate, 3-cleft: stem branched: leaves, in very dry situations, sometimes undivided.*

RUE-LEAVED SAXIFRAGE. On walls, roofs, and amongst rubbish. Southwell; Newark.
A. April, May.

SCLERANTHUS. *Smith.* 457. *With.* 407.

Cal. monophyllus, inferus. *Cor.* nulla. *Semina* duo, calyce inclusa.

Cal. *1-leaf.* Bloss. *none.* Seed 1, *inclosed in the cup.*

S. calycibus fructus patulis acutis, caulibus patentibus. *annuus.*

S. *Calyx, segments thornless: tapering to a point: open when the fruit is ripe.*

ANNUAL KNAWELL. Sandy ground Cornfields and in a nursery of mine between Newark and Barnby; Newark; Farnsfield; Blidworth. A. July.

SAPONARIA. *Smith.* 459. *With.* 408.

Cal. monophyllus, nudus. *Petala* quinque, unguiculata. *Capsula* supera, oblonga, subunilocularis.

Calyx 1 *leaf, naked.* Petals 5, *with claws.* Caps. *oblong, of* 1 *cell.*

officinalis. S. calycibus cylindricis, foliis elliptico-lanceolatis.

S. *Calyx cylindrical: leaves egg-spear-shaped.*

SOAPWORT. Meadows and hedges, but not common. In the hedges of a close adjoining the lane that leads from Mansfield to Sherwood Hall. Near the Mansfield bath. DEERING. P. August.

DIANTHUS. *Smith.* 460. *With.* 409.

Cal. cylindricus, monophyllus, basi squamatus. *Petala* 5. unguiculata. *Capsula* cylindrica, supera, unilocularis.

Cal. *cylindrical, of* 1 *leaf, with from* 2 *to* 8 *scales at the base.* Petals 5, *with claws.* Caps. *cylindrical,* 1-*celled.*

deltoides. D. floribus solitariis, squamis calycinis ovato-lanceolatis acutis subbinis, foliis obtusiusculis, subpubescentibus, petalis crenatis.

D. Scales of the calyx 2: *egg-spear-shaped, acute: petals toothed at the end.*

MAIDEN PINK. Sandy meadows, pastures and rocky places. Rocks in Nottingham Park, and about Gallows Hill; also in Lenton Hollows near Nottingham; Sandy banks near Wollerton, by the side of the Derby road. B. July---October.

II TRIGYNIA.

SILENE. *Smith.* 465. *With.* 413.

Cal. monophyllus, ventricosus. *Petala* 5, unguiculata. *Capsula* supera, semitrilocularis, apice dehiscens, polysperma.

Calyx *distended.* Petals 5, *with claws: crowned at the mouth.* Caps. 1 *or* 3-*celled.*

S. floribus paniculatis secundis cernuis, petalis bipartitis: laciniis linearibus, foliis lanceolatis pubescentibus. *nutans.*

S. *Petals cloven: calyx ribbed: flowers lateral, pointing one way, bowed downwards: panicle drooping.*

NOTTINGHAM CATCHFLY. On the walls and rocks of Nottingham Castle; Rocks at Sneaton, a mile from Nottingham. P. June, July.

C. floribus paniculatis cernuis, petalis semibifidis subnudis, calycibus glabris reticulato-venosis, caule erecto. *inflata.*

C. *Calyx nearly globular, smooth, with a network of veins: leaves egg-spear-shaped, glaucous, smooth.*

Cucubalus Behen. LINN. *With.*

BLADDER-CAMPION, or CATCHFLY. Cornfields and meadows, in a limestone soil. Beacon Hill, near Newark; and about the Stone-pits. P. June---Aug.

STELLARIA. *Smith.* 472. *With.* 417.

Cal. pentaphyllus, patens. *Petala* 5, bipartita. *Capsula* supera, unilocularis, polysperma, apice sexdentata.

Cal. 5 *leaves, expanding.* Petals 5, *mostly divided down to the base.* Caps. 1 *cell.* Seeds *many.*

media. S. foliis ovatis, caulibus procumbentibus linea laterali pilosa alterna.

S. *Petals deeply divided: leaves egg-heart-shaped: stems with a hairy ridge on one side.*

Alsine media. LINN.

COMMON CHICKWEED. In gardens and cultivated ground; very common. A. March, Oct.

holostea. S. foliis lanceolatis serrulatis, petalis bifidis, calyce enervi.

S. *Leaves spear-shaped, very finely serrated: petals cloven.*

GREATER STICHWORT. Hedges and woods; very common. P. April, May.

graminea. S. foliis lineari-lanceolatis integerrimis, paniculâ terminali divaricata, calyce trinervi petalis subæquali.

S. *Leaves strap-shaped, very entire: flowers in panicles.*

LESSER STICHWORT. In meadows, pastures, and hedge banks; Newark; Southwell. A. May.

S. foliis elliptico-lanceolatis integerrimis apice callosis, floribus subpaniculatis lateralibus, petalis calyce brevioribus. *uliginosa.*

S. *Leaves spear-shaped, very entire: stems trailing: panicles lateral.*

BOG STICHWORT. Sides of springs, rivulets, ditches, and boggy meadows. Edingley Moors; Farnsfield Carr; Oxton Bottoms; Marshes about Southwell and Halam; Coddington and Stapleford Moors. A. June.

ARENARIA. *Smith.* 477. *With.* 421.

Cal. pentaphyllus, patens. *Petala* 5, integra. *Capsula* supera, unilocularis, polysperma.

Cal. 5 *leaves, expanding.* Petals 5, *entire.* Caps. 1-*celled, many seeded.*

A. foliis ovatis acutis petiolatis nervosis, calycibus carina scabris obsolete trinervibus. *trinervia.*

A. *Leaves egg-shaped, 3-fibred, pointd, on leaf-stalks.*

PLANTAIN-LEAVED CHICKWEED, or SANDWORT. Woods, banks, and wet hedges. Halam Beck; Thurgarton Water. A. May, June.

A. foliis ovatis subsessilibus scabris, calycibus hirsutis subquinquenervibus. *serpyllifolia.*

A *Leaves somewhat egg-shaped, acute, sitting: blossoms shorter than the calyx.*

THYME-LEAVED SANDWORT. On roofs, walls, sandy and very dry places. Southwell; Newark. A. June, July.

A. foliis linearibus mucronulatis, stipulis scariosis vaginantibus, seminibus compressis angulatis scabriusculis. *rubra.*

A. *Leaves thread-shaped, opposite, but half the length of the joints of the stem: stem prostrate: calyx as long as the capsule.*

PURPLE SANDWORT. Sandy lanes, meadows, and road sides. Gravel-walks at Southwell; Sherwood Forest; Mansfield; Coddington Moors.
A. July, August.

III PENTAGYNIA.

SEDUM. *Smsth.* 485. *With.* 426.

Cal. quinquefidus. *Cor.* pentapetala. *Squamæ nectariferæ* 5, ad basin germinis. *Capsulæ* 5, superæ.

Cal. *5-cleft.* Bloss. *none, or 5 petals.* Nectariferous Scales 5, *at the base of the germens.* Caps. 5, *distinct, like a legumen.*

Teretifolia.

Leaves roundish, nearly cylindrical.

dasyphyllum. S. foliis oppositis ovatis obtusis carnosis, caule infirmo, panicula glutinosa.

S. *Leaves opposite, egg-shaped, blunt, fleshy; stem weak; flowers scattered.*

THICK-LEAVED STONE-CROP. Walls and rocks; rare. On Walls near Kirkby Church. P. June.

acre. S. foliis alternis subovatis carnosis gibbis adnato-sessilibus, cyma trifida foliosa.

S. *Leaves nearly egg-shaped, growing to and sitting, bulging, nearly upright, alternate: tuft with 3 divisions.*

STONE-CROP. WALL PEPPER. On walls, roofs, rocks, dry banks, and pastures. Banks of the Hedges of the Close next Fidler's Bridge, in the Foot-road from Newark to Kelham; Quonce Close, at Newark. P. June.

S. foliis subulatis sparsis basi solutis: inferioribus recurvatis, floribus subcymosis. *reflexum.*

S. *Leaves awl-shaped, scattered, loose at the base; the lower ones bowed back.*

YELLOW STONE-CROP. On walls, roofs, and rocks. On the Wall of the Palace at Southwell. P. July.

OXALIS. *Smith.* 491. *With.* 429.

Cal. pentaphyllus. *Petala* 5, unguibus connexa *Capsula* supera, quinquelocularis, angulis dehiscens, pentagona. *Semina* arillo elastico tecta.

Calyx 5 *leaves.* Petals *connected by the claws.* Capsules 5-*sided, opening at the corners.*

O. scapo unifloro, foliis ternatis obcordatis pilosis, radice squamoso-articulata. *Acetosella.*

O. *Stalk with* 1 *flower: leaves* 3 *together: leafits inversely heart-shaped, hairy.*

COMMON WOOD SORREL. In woods and shady places. Westhorpe Dumal, near Southwell; Thickets near Oxton Toll-bar; Eperstone, Colwick, Asply, and Broxtow Woods. P. April, May.

AGROSTEMMA. *Smith.* 493. *With.* 431.

Cal. monophyllus, coriaceus. *Petala* 5, unguiculata; limbo obtuso indiviso. *Capsula* supera, unilolocularis, ore quinque-dentata.

Calyx 1-*leaf, like leather.* Petals 5, *with claws; border blunt, undivided.* Caps. 1-*celled.*

Githago. A. hirsuta, calyce corollam superante, petalis integris nudis.

A. *Plant hairy: calyx as long as (or longer) than the blossom, petals entire, not crowned.*

CORN COCKLE. In cornfields; frequent. Newark; Southwell. A. June, July.

LYCHNIS. *Smith.* 493. *With.* 431.

Cal. monophyllus, oblongus. *Petala* quinque, unguiculata, limbo sæpius diviso. *Capsula* supera, ore quinquedentata, 1-5 locularis.

Calyx 1 *leaf, oblong, even.* Petals 5, *with claws, limbs often cloven.* Caps. 1 *to* 5-*celled.*

Flos-Cuculi. L. petalis quadrifidis, fructu subrotundo uniloculari.

L. *Petals* (3 *or*) 4-*cleft: fruit roundish: of* 1 *cell.*

RAGGED-ROBIN. MEADOW LYCHNIS. Moist meadows and pastures; very common. P. June.

dioica. L. floribus dioicis, fructu uniloculari.

L. *Stamens and pistils in distinct plants: capsules* 1-*celled.*

RED CAMPION. Hedges, ditches, and moist woods; very frequent. P. May---Sept.

CERASTIUM. *Smith.* 496. *With.* 433.

Cal. pentaphyllus. *Petala* bifida. *Capsula* supera, apice dehiscens, ore decemdentata, unilocularis.

Calyx 5-*leaved.* Petals *cloven.* Caps. 1-*celled, opening at the top.*

C hirsutum viscidum cæspitosum, foliis ovatis, petalis calyci æqualibus, floribus pedunculo longioribus. *vulgatum.*

C. *Leaves egg-shaped: petals as long as the calyx: stems spreading.*

BROAD-LEAVED MOUSE EAR. CHICKWEED. Meadows, pastures, on walls, sides of roads, gardens; Southwell; Newark. A. April, May.

C. hirsutum viscidum diffusum, foliis lanceolato-oblongis. *viscosum.*

C. *Upright, woolly and clammy.*

NARROW-LEAVED MOUSE-EAR CHICKWEED. Meadows, pastures, and ant-hills; not uncommon. P. May, sept.

C. foliis lineari-lanceolatis obtusis basi ciliatis, petolis calyce duplo longioribus. *arvense.*

C. *Leaves strap-spear-shaped, bluntish, fringed at the base: blossoms larger than the calyx.*

FIELD CHICKWEED. Cornfields, gravelly meadows, and pastures. Farnsfield. P. May—August.

C. foliis cordatis sessilibus, pedunculis lateralibus solitariis: fructiferis reflexis, capsula ovata ore quinquedentato. *aquaticum.*

C. *Leaves heart-shaped, sitting: flowers solitary: capsules pendent.*

WATER-CHICKWEED. Watery places, banks of rivers, mostly amongst bushes. Ditch banks near Fidler's Bridge, in going to Kelham; Newark and Averham Meadows; Averham Lane; Edingley. P. July.

SPERGULA. *Smith.* 502. *With.* 436.

Cal. pentaphyllus. *Petela* 5, integra. *Capsula* supera, ovato, unilocularis, quinquevalvis.

Cal. 5 *leaves.* Petals 5, *entire.* Caps. *egg-shaped, of* 1 *cell and* 5 *valves.*

arvensis. S. foliis verticillatis, pedunculis fructiferis reflexis, seminibus reniformibus.

S. *Leaves in whirls* : *flowers with more than* 5 *stamens* : *stems thick at the joints.*

CORN SPURRY. Corn-fields and sandy places, especially where water has lain, and gravel walks; frequent. In fields and roads about Newark.

A. July---September.

pentandra. S. foliis verticillatis, floribus pentandris, seminibus depressis alatis.

S. *Leaves in whirls*; *flowers with* 5 *stamens*; *seeds depressed, winged.*

LITTLE CORN SPURRY. Sandy places. Farnsfield.

A. June.

nodosa. S. foliis oppositis subulatis lævibus : superioribus fasciculatis, calyce enervi.

S. *Leaves opposite, awl-shaped, smooth*; *stem simple.*

KNOTTED SPURRY. Marshy places, wet pastures and sides of rivers, lakes and marshes. On Edingley Moors; Farnsfield Carr; Oxton Bottoms.

P. July, August.

Classis XI.

DODECANDRIA.

Stamina 12—20.

MONOGYNIA.

Stylus 1.

LYTHRUM *Pet.* sex. *Cal.* trifidus, superus. *Caps.* sexlocularis.

LYTHRUM. Bloss. 6 *petals.* Cal. 12-*toothed, beneath.* Caps. 1 *or* 2 *celled.*

DIGYNIA.

Styli 2.

AGRIMONIA. *Pet.* quinque, calyci inserta. *Sem.* in fundo calycis.

AGRIMONIA. Bloss. 5 *petals.* Cal. 5-*cleft.* Seeds 1 *or* 2.

TRIGYNIA.

Styli 3.

RESEDA. *Pet.* multifida *Caps.* unilocularis, hians.

RESEDA. Bloss. *petals many-cleft.* Cal. *divided.* Caps. 1-*celled*, *gaping open.*

EUPHORBIA. *Nectaria* peltata. *Caps.* tricocca. pedicellata.

EUPHORBIA. Bloss. *petals fixed by the centre.* Cal. *bellying.* Caps. 3 *united dry berries.*

DODECAGYNIA.

Styli 12.

SEMPERVIVUM. *Pet.* duodecim. *Cal.* duodecimpartitus. *Caps.* duodecim.

SEMPERVIVUM. Bloss. 12 *petals.* Cal. *with* 12 *divisions.* Capsules 12.

XI DODECANDRIA.

1 MONOGYNIA.

LYTHRUM. *Smith.* 509 *With.* 441.

Cal. duodecimfidus, inferus. *Petala* sex, calyci inserta. *Capsula* bilocularis, polysperma.

Cal. *often with* 12 *or* 16 *teeth.* Petals 5 *or* 6, *fixed to the calyx.* Capsule 1 *or* 2-*celled, many seeded.*

L. foliis oppositis cordato-lanceolatis, floribus spicatis dodecandris. *Salicaria.*

L. *Leaves opposite or alternate, heart-spear-shaped: flowers in spikes,* 10 *or* 12 *stamens in each.*

PURPLE LOOSESTRIFE. Marshes and banks of rivers. On the Banks of the River Trent; Ditches about Southwell; Newark; Edingley Moors.
P. July, August.

L. foliis alternis lineari-lanceolatis, floribus axillaribus solitariis hexandris. *hyssopifolium.*

L. *Leaves alternate: flowers with* 6 *stamens.*

HYSSOP LEAVED LOOSESTRIFE, or GRASS-POLY. Watery places, and where water has stood during the winter; rare. In water where water stagnates below Wilford boat. DERING. I have unsuccessfully endeavoured to find this plant. A. August.

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11 DIGYNIA.

AGRIMONIA. *Smith.* 511. *With.* 442.

Cal. quinquedentatus, calyculatus. *Petala* quinque, calyci inserta. *Semina* duo, in fundo calycis.

Calyx 5-*toothed, surrounded by another.* Petals 5. Seeds 2, *in a capsule at the bottom of the calyx, which becomes indurated.*

Eupatoria. A. foliis caulinis pinnatis: impari petiolato, fructibus hispidis.

A. *Stem-leaves winged: the odd leaflt on a leaf-stalk: fruit hispid.*

COMMON AGRIMONY. Borders of cornfields, shady places, and hedges. Hedge banks, and in lanes about Newark; in Mr. Pocklington's plantation facing the Winthorpe Road, near the Folly; Parks at Southwell. P. June, July.

III TRIGYNIA.

RESEDA. *Smith.* 512. *With.* 445.

Cal. monophyllus, partitus. *Petala* laciniata. *Capsula* supera, apice hians, unilocularis, polysperma.

Calyx 1 *leaf, divided.* Petals *jagged.* Capsule 1-*celled, many-seeded, opening at the top.*

Luteola. R. foliis lanceolatis integris planis, calyce quadrifido.

R. *Leaves spear-shaped, entire, with a tooth on each side of the base: calyx* 4-*cleft.*

DYER'S WEED. YELLOW WEED, or WELD. Meadows, pastures, walls, and barren uncultivated spots; not uncommon. In the lane leading to Averham Meadow, from the Mill, beyond the Cotton Mill at Newark: the road between Markham Bridge and Farndon from Newark. A. July.

lutea. R. foliis omnibus trifidis; inferioribus pinnatis, calyce sexfido.

R. *All the leaves 3-cleft; the lower winged.*

WILD MIGNONETTE or BASE ROCKET. Cornfields, meadows, pastures, in a calcareous soil; not frequent. Bulwell Limekilns. A. or P. July, Aug.

EUPHORBIA. *Smith.* 513. *With.* 446.

Cal. monophyllus, ventricosus, inferus. *Nectaria* 4, vel 5, calyci insidentia. *Capsula* pedicellata, tricocca.

Calyx 1 *leaf, distended.* Bloss. 4 *or* 5 *petals, sitting on the calyx.* Caps. 3, *united.*

* Umbella trifida.

1 *Umbels with* 3 *spokes.*

E. Umbella trifida: dichotoma, involucellis ovatis, foliis integerrimis obovatis petiolatis. *Peplus.*

E. *Umbels with* 3 *spokes; spokes forked: involucellums egg-shaped: leaves very entire, inversely egg shaped, on leaf-stalks.*

PETTY SPURGE. Rich cultivated soil; very frequent. A. July, August.

E. umbella trifida: dichotoma, involucellis lanceolatis, foliis linearibus. *exigua.*

E. *Umbels with* 3 *spokes; spokes forked: involucellums spear-shaped: leaves strap-shaped.*

DWARF SPURGE. Cornfields; frequent. Beaconfields, Newark; Coddington; Southwell; Farnsfield. A. July.

** Umbella quinquefida.

2 *Umbels with* 5 *spokes.*

helios-copia. E. umbella quinquefida; trifida: dichotoma, involucellis obovatis, foliis cuneiformibus serratis.

E. *Umbel with 5 spokes; spokes with 3 divisions, and these forked: involucellums inversely egg-shaped: leaves wedge-shaped, serrated.*

SUN-SPURGE or WART-WORT. In cultivated places, as gardens and cornfields; frequent.
A. July, August.

IV DODECAGYNIA.

SEMPERVIVUM. *Smith.* 522. *With.* 452.

Cal. inferus, duodecim-partitus. *Petala* 12. *Capsulæ* 12.

Calyx 12-*cleft.* Petals 1, 6, 12, *to* 24. Caps. 12, *many-seeded, like a legumen.*

tectorum. S. foliis ciliatis, propaginibus patentibus.

S. *Leaves fringed: off-sets expanding.*

COMMON HOUSELEEK. Roofs of old thatched buildings. Upton, and some House-tops in Southwell; on Pent-houses, in Newark. P. July.

Classis XII.

ICOSANDRIA.

Stamina plura, calyci inserta.

MONOGYNIA.

Stylus 1.

PRUNUS. *Cal.* inferus, quinquefidus. *Pet.* quinque. *Drupa* nucleo integro.

PRUNUS. Cal. *beneath*, *5-cleft*. Bloss. *5 petals*. Drupa *with an entire nut*.

PENTAGYNIA.

Styli 2 ad 5.

MESPILUS. *Cal.* superus, quinquefidus. *Pet.* quinque. *Drupa* nucibus 2 ad 5, dispermis.

MESPILUS. Cal. *superiour*, *5-cleft*. Bloss. *5-petals* Berry *with 5 seeds*.

PYRUS. *Cal.* superus, quinquefidus. *Pet.* quinque. *Pomum* loculamentis 2 ad 5, dispermis.

PYRUS. Cal. *superiour, 5-cleft.* Bloss. 5 *petals.* Fruit a Pomum, *with 5 cells and many seeds.*

SPIRÆA. *Cal.* inferus, quinquefidus. *Pet.* quinque. *Caps.* bivalves, polyspermæ.

SPIRÆA. Cal. *beneath, 5-cleft.* Bloss. 5 *petals.* Capsules *many, crowded together.*

POLYGYNIA.

Styli plures.

ROSA. *Cal.* quinquefidus, urceolatus, demum baccatus, polyspermus.

ROSA. Cal. *5-cleft.* Bloss. *5-petals.* Cup *like a berry, with many seeds.*

RUBUS. *Cal.* quinquefidus. *Bacca* supera, composita, acinis monospermis.

RUBUS. Cal. *5-cleft.* Bloss. *5 petals.* Berry *compound.*

TORMENTILLA. *Cal.* octofidus. *Pet.* quatuor. *Sem.* nuda, mutica.

TORMENTILLA. Cal. 8-*cleft.* Bloss. 4 *petals.* Seeds 8, *awnless.*

FRAGARIA. *Cal.* decemfidus. *Sem.* nuda, lævia, receptaculo deciduo, baccato, affixa.

FRAGARIA. Cal. 10-*cleft.* Bloss. *5 petals.* Seeds *many, deciduous, situated upon a receptacle resembling a berry.*

POTENTILLA. *Cal.* decemfidus. *Sem.* nuda, rugosa, mutica.

POTENTILLA. Cal. 10-*cleft*. Bloss. 5 *petals*. Seeds *many*, *awnless*.

GEUM. *Cal.* decemfidus. *Sem.* arista geniculata. *Recept.* columnare.

GEUM. Cal. 10-*cleft*. Bloss. 5 *petals*. Seeds *many*, *with a knee-jointed awn*.

COMARUM. *Cal* decemfidus. *Sem.* nuda, lævia, receptaculo ovato, spongioso, villoso, persistenti, affixa.

COMARUM. Cal. 10-*cleft*. Bloss. 5 *petals*. Seeds *many*, *permanent*, *upon a fleshy receptacle*.

XII ICOSANDRIA.

1 MONOGYNIA.

PRUNUS. *Smith.* 526. *With.* 455.

Cal. quinquefidus, inferus. *Petala* 5. *Drupa nux* suturis prominulis.

Calyx 5 *cleft*, *beneath*. Petals 5. Drupa 1-*celled*, *closed at the top*. Nut *with projecting seams*.

P. floribus racemosis; racemis pendulis, foliis deciduis basi subtus biglandulosis. *Padus.*

P. *Flowers in bunches*; *leaves deciduous*, *with 2 glands at the base on the under side.*

BIRD-CHERRY. Woods and hedges. Norwood Park. S. May.

Cerasus. P. umbellis subsessilibus, foliis ovato-lanceolatis conduplicatis.

P. *Umbels mostly on short fruit-stalks: leaves egg-spear-shaped, smooth, doubled together.*

CHERRY-TREE. Woods and hedges. Halam T. May.

insitia. P. pedunculis geminis, foliis lanceolato-ovatis convolutis subtus villosis, ramis spinescentibus.

P. *Fruit-stalks in pairs; leaves egg-shaped, slightly woolly, coiled; branches with thorns.*

BULLACE-TREE. Hedges. Normanton. T. April.

spinosa. P. pedunculis solitariis, foliis lanceolatis glabris, ramis spinosis.

P. *Fruit-stalk solitary: leaves spear-shaped, smooth, branches thorny.*

BLACK THORN. SLOE TREE. Hedges; common. S. March, April.

II PENTAGYNIA.

Styli 2 ad 5.

MESPILUS. *Smith.* 529. *With.* 459.

Cal. quinquefidus. *Petala* 5. *Drupa* infera. *Nuces* 2 ad 5, dispermæ.

Cal. 5-*cleft.* Petals 5. Berry *beneath, opening at the top,* 1-*celled,* 1 *or more seeded.*

Oxyacantha. M. spinosa, foliis obtusis subtrifidis serratis glabris, floribus subdiginis.

M. *Leaves mostly 3-cleft: segments blunt serrated.*

Cratægus Oxyacantha. *With.* 159.

HAW-THORN. WHITE-THORN. MAY. Hedges; very common.

PYRUS. *Smith.* 531. *With.* 462.

Cal. quinquefidus. *Petala* 5. *Pomum* inferum, 2 ad 5-loculare. *Semina* bina.

Cal. *5-cleft.* Petals 5. Pomum *beneath, 5-celled, many-seeded.*

P. foliis simplicibus serratis, pedunculis corymbosis. *communis.*

P. *Leaves serrated, smooth: flowers forming a corymbus.*

PEAR TREE. IRON PEAR TREE. Woods and hedges. T. April, May.

P. foliis simplicibus serratis, umbellis simplicibus sessilibus. *Malus.*

P. *Leaves serrated: flowers in umbels, sitting.*

APPLE-TREE. CRAB-TREE. Woods and hedges; frequent. T. May.

P. foliis pinnatis: foliolis æqualibus serratis glabriusculis, floribus corymbosis subtrigynis. *aucuparia.*

P. *Leaves winged, smooth on both sides.*

Sorbus aucuparia. Linn. *With.*

MOUNTAIN ASH. QUICKEN-TREE. Woods and hedges, in mountainous situations. Edingley Hill. T. May.

SPIRÆA. *Smith.* 535. *With.* 463.

Cal. quinquefidus. *Petala* 5. *Capsulæ* superæ, bivalves, polyspermæ.

Cal. 5-*cleft.* Petals 5. Caps. 4 *or more*, 2-*celled*, 2-*valved*, *many-seeded.*

Filipendula. S. foliis interrupte pinnatis: foliolis uniformibus serratis glabris, caule herbaceo, floribus cymosis polygynis.

S. *Leaves interruptedly winged*: *leafits strap-spear-shaped, irregularly serrated, very smooth*: *flowers in tufts.*

COMMON DROPWORT. Meadows and pastures, in a calcareous soil. Newark and Averham Meadows; Great Close, Oxton. P. July.

Ulmaria. S. foliis interrupte pinnatis subtus tomentosis, impari majori lobato, floribus cymosis polygynis.

S. *Leaves interruptedly winged*: *leafits egg-shaped, doubly serrated, hoary underneath*: *flowers in tufts.*

MEADOW-SWEET. Moist meadows and banks of rivers. Newark and Averham Meadows; Greet Meadows, Southwell. P. June, July.

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111 POLYGYNIA.

ROSA. *Smith.* 537. *With.* 464.

Cal. urceolatus, quinquefidus; carnosus, collo coarctatus. *Petala* 5. *Semina* plurima, hispida, calycis lateri interiori affixa.

Petals 5. Cal. *urn shaped, 5 cleft, fleshy, contracted at the neck, so as to form at length a coloured* Berry *of* 1 *cell, opening at the top.* Seeds *many, hispid, dispersed in the pulp.*

* Fructibus subglobosis.

1 *Germens more or less globular.*

R. fructibus globosis pedunculisque glabris, aculeis caulinis numerosissimis rectis setaceis, foliolis subrotundis glabris. *spinosissima.*

R. *Germens and fruit-stalks smooth: stem and leaf-stalks fully set with straight prickles: leafits circular smooth.*

BURNET ROSE. Hedges, heaths, and sandy places. Newark; Southwell. S. July.

R. fructibus globosis pedunculisque inermibus, aculeis caulinis petioloruinque aduncis, floribus subcymosis *arvensis.*

R. *Germens and fruit-stalks smooth: stem and leaf stalks prickly: flowers in tufts.*

WHITE DOG ROSE. Hedges and heaths; common. Southwell; Newark. S. July.

R. fructibus globosis pedunculisque hispidis, aculeis caulinis recurvis, foliolis ellipticis utrinque tomentosis *villosa.*

R. *Germens and fruit-stalks hisped: stem with scattered prickles: leaf-stalks prickly: leaves cottony.*

APPLE ROSE. Mount in the hedges and shady places. On the right and left hand before you reach Kirklington Turnpike-road, in going from Normanton; on the

high cross hill, in the road from Southwell to Thurgarton; near the Bridge across Halam Beck, in the road from Southwell to Kirklington. S. June.

* * Fructibus ovatis.

2 *Germans egg shaped.*

rubiginosa. R. fructibus ovatis pedunculisque hispidis, aculeis caulinis aduncis. foliolis ellipticis subtus glanduloso rubiginosis.

R. *Germens and fruit-stalks prickly at the base: prickles on the stem bent back: leaves rusted underneath.*

SWEET-BRIAR. EGLANTINE. Hedges and heaths; not common. Hedge beyond Averham flash, on the Upton road; also on waste ground by the 5 mile-stone, before you arrive at Potters' hill, on the Lincoln road from Newark. S June, July.

canina. R. frucibus ovatis pedunculisque glabris, aculeis caulinis aduncis, foliolis ovatis acuminatis glaberrimis.

R. *Germens and fruit-stalks smooth: stem and leaf-stalks prickly.*

COMMOM DOG-ROSE, WILD-BRIAR, or HEP-TREE. Hedges and woods. Southwell; Newark. S. June.

RUBUS. *Smith.* 541. *With.* 468.

Cal. quinquefidus. *Petala* 5. *Bacca* supera, composita acinis monospermis.

Cal. 5-*cleft.* Petals 5. Styles *from the top of the germens.* Drupa *clustered, 1-celled, fixed to a conical receptacle, so as to resemble a berry.*

R. foliis quinato-pinnatis ternatisque subtus tomentosis, petiolis canaliculatis, caule aculeato. *idæus.*

R. *Leaves winged, with 5 or 3 leafits: stem prickly: leaf-stalk channelled.*

RASP-BERRY. Woods and hedges. Plantation of R. Pocklington, Esq. between Newark and Barnby. S May, June.

R. foliis ternatis subtus pilosis: lateralibus bilobis, caule aculeato prostrato glauco. *cæsius.*

R. *Leaves 3 together, almost bare; lateral leaves 2-lobed: stem prickly, cylindrical: panicle few-flowered.*

DEW-BERRY. Woods and hedges. S. June, July.

R. foliis subquinatis subtus pilosis: lateralibus sessilibus, aculeis rectiusculis, calycibus fructus inflexis. *corylifolius.*

R. *Leaves winged with 3 or 5 leafits, hairy underneath: lateral leaves sitting; prickles straight, calyxes of the fruit bent inwards.*

HAZLE-LEAVED BRAMBLE. In woods and hedges; not unfrequent. S. July.

R. foliis subquinatis subtus tomentosis: foliolis petiolatis, aculeis aduncis, caule angulato, calyce reflexo. *fruticosus.*

R. *Leaves winged, with 3 or 5 leafits: stem and leaf-stalks prickly: panicle oblong.*

COMMON BRAMBLE. Hedges and woods; common. S. June---Sept.

FRAGARIA. *Smith.* 546. *With.* 471.

Cal. decemfidus, inferus. *Petala* 5. *Receptaculum* seminum ovatum, baccatum, deciduum, *Semina* lævia.

Calyx 10-*cleft*. Petals 5. Seeds *naked, smooth, on a* receptacle, *which is egg shaped, coloured, deciduous, resembling a berry.*

vesca. F. flagellis reptantibus.

F. *Leaves* 3 *together: runners creeping.*

WOOD STRAWBERRY. Woods and shady places; frequent. Eperstone Woods; Halam and Edingley Hills. P. May, June.

sterilis. F. caule decumbente, ramis floriferis laxis subbifloris.

F. *Stem prostrate, without creeping runners.*

BARREN STRAWBERRY. Barren pastures, heaths, and hedge banks. Sherwood Forest P. March, Apr.

POTENTILLA. *Smith.* 547. *With.* 472.

Cal. decemfidus, inferus. *Petala* 5. *Semina* subrotunda, nuda, sæpius rugosa, *receptaculo* parvo, exsucco, affixa.

Calyx 10-*cleft*. Petals 5. Seeds *roundish, naked, wrinkled, fixed to a* Receptacle, *which is small, juiceless, spongy, tubercled.*

* Foliis pinnatis.

1 *Leaves winged.*

anserina. P. foliis interrupte pinnatis serratis subtus sericeis, caule repente, pedunculis unifloris.

P. *Leaves winged, serrated: stem creeping: fruit stalks with* 1 *flower.*

SILVER-WEED. WILD TANSEY. Sides of paths and roads, and in low pastures, especially where water has stood during the winter; common. P. June, July.

* * Foliis digitatis.

2 *Leaves with finger like divisions.*

P. foliis quinatis cuneiformibus incisis subtus tomentosis, caule erecto. *argentea.*

P. *Leafits 5 together, wedge-shaped, snipt, cottony underneath: stem upright.*

SILVERY CINQUEFOIL. Meadows and pastures, in a gravelly soil; not uncommon. Farnsfield; Queenshill close, at Newark; Larkdale at Nottingham. P. June.

P. foliis quinatis obovatis serratis, caule repente, pedunculis unifloris. *reptans.*

P. Leafits 5 together; stem creeping: fruit-stalks 1 flowered.

COMMON CREEPING CINQUEFOIL. Meadows, pastures, and road-sides; very common. Southwell; Newark. P. June---August.

TORMENTILLA. *Smith.* 552. *With.* 476.

Cal. octofidus, inferus. *Petala* 4. *Semina* subrotunda, nuda, rugosa. *Receptaculo* parvo, exsucco, affixa.

Cal. 8-*cleft*. Petals 4. Seeds *roundish, naked, fixed to a small juiceless receptacle.*

T. caule erectiusculo ramoso, foliis sessilibus. *officinalis.*

T. *Stem somewhat ascending: leaves sitting.*

T. erecta. LINN.

COMMON TORMENTIL, or SEPTFOIL. Moors, barren pastures, and shady places; common. Southwell; Newark. P. June.

reptans. T. caule prostrato simplici, foliis petiolatis.

T. Stem trailing; leaves on leaf-stalks.

TRAILING TORMENTIL. Woods and barren pastures; rare. On a common pasture in the parish of Eakring, called Manzers Gorze. P. June, July.

GEUM. *Smith.* 554. *With.* 477.

Cal. decemfidus, inferus. *Petala* 5. *Seminum* arista geniculata. *Receptaculum* columnare.

Cal. 10 *cleft.* Petals 5. Styles *terminating.* Seed *with a jointed awn.* Recept. *pillar-like.*

urbanum. G. foliis ternatis, stipulis rotundatis incisis, floribus erectis, aristis uncinatis nudis.

G. *flowers upright: fruit globular, woolly: awns hooked, bare: root-leaves lyre-shaped: stem-leaves in threes.*

COMMON AVENS. HERB BENNET. Woods and hedges; common. Southwell; Newark. P. May---August.

rivale. G. foliis radicalibus lyratis, stipulis ovatis acutis incisis, floribus nutantibus, aristis plumosis tortis.

G. *Flowers nodding: fruit oblong: awns feathered, twisted: petals blunt, roundish wedge-shaped: leaves winged.*

WATER-AVENS. Wet woods and shady moist places. In a lane leading from Radley, on the Oxton Road, to Miss Tottice's Wood. Rev. J. T. Becher. In the close by Asply House, and along the wood side. Deering. P. June, July.

COMARUM. *Smith.* 556. *With.* 479.

Cal. decemfidus, inferus. *Petala* 5, calyce minora. *Receptaculum* seminum ovatum, spongiosum, villosum, persistens. *Semina* lævia.

Cal. 10-*cleft*, *permanent*: *segments alternately smaller*. Petals 5. Seeds *naked*, *smooth*. Recept. *globular*; *fleshy*, *woolly*, *permanent*.

COMARUM. *palustre*

C. *Leaves winged*: *petals smaller than the calyx*.

MARSH CINQUEFOIL. Muddy putrid marshes; bogs. Ponds at Oxton. P. June, July.

Classis XIII.

POLYANDRIA.

Stamina plura, receptaculo inserta.

MONOGYNIA.

Stylus 1.

* Tetrapetali.

1. *Petals* 4.

PAPAVER. *Cal.* diphyllus. *Caps.* unilocularis, poris sub stigmate dehiscens.

PAPAVER. Calyx 2-*leaved.* Capsule 1-*celled*; *crowned.*

CHELIDONIUM. *Cal.* diphyllus. *Siliqua* unilocularis. *Sem.* cristata.

CHELIDONIUM. Calyx 2-*leaved.* S. vess. *a long* Pod.

* * Pentapetali.

2 *Petals* 5.

CISTUS. *Caps.* trivalvis, apice dehiscens. *Cal.* pentaphyllus; foliolis duobus minoribus.

CISTUS. Caps. *nearly globular.* Cal. 5-*leaved*; 2 *leafits smaller.*

TILIA. *Caps.* quinquevalvis, basi dehiscens, coriacea. *Cal.* quinquepartitus, deciduus.

TILIA. Caps. *5-celled*; *like leather*. Seed 1. Cal. *deciduous*.

* * * Polypetali.

3 *Petals many*.

NYMPHÆA. *Bacca* multilocularis, corticosa. *Cal.* petalis major.

NYMPHÆA. Berry *many-celled*: *outer-coat like bark*. Cal. *large*.

PENTAGYNIA.

Styli 5.

AQUILEGIA. *Cal.* nullus. *Pet.* quinque. *Nect.* quinque, inferne cornuta.

AQUILEGIA. Cal. *none*. Bloss. 5 *petals*. Nectaries 5: *horned in the lower part*.

HEXAGYNIA.

Styli 6.

STRATIOTES. *Spatha* dyphylla. *Perianthium* superum, trifidum. *Pet* tria. *Bacca* sexlocularis.

STRATIOTES. Cal. *with* 3 *divisions*. Bloss. 3 *petals*. Berry 6-*celled*; *in a sheath*.

POLYGYNIA.

Styli plures.

THALICTRUM. *Cal.* nullus. *Pet.* 4—5. *Sem.* ecaudata.

THALICTRUM. Cal. *none.* Bloss. 4 *or* 5 *petals.* Seeds *many*; *awnless*: *naked.*

CLEMATIS. *Cal.* nullus. *Pet.* 4—6. *Sem.* caudata. *Recept.* capitatum.

CLEMATIS. Cal. *none.* Bloss. 4 *petals.* Seeds *many*; *awned.*

ANEMONE. *Cal.* nullus. *Pet.* 5—9. *Sem.* plurima.

ANEMONE. Cal. *none.* Bloss. 6 *petals.* Seeds *many.*

CALTHA. *Cal.* nullus. *Pet.* quinque. *Nect.* nulla.

CALTHA. Cal. *none.* Bloss. 5 *petals.* Caps. *many.* Nectaries *none.*

RANUNCULUS. *Cal.* pentaphyllus. *Pet.* quinque, unguibus, nectariferis. *Sem.* plurima nuda.

RANUNCULUS. Cal. 5 *(or* 3*) leaves.* Bloss. 5 *(or* 8*) petals.* Seeds *many.* Petals *with a nectary in the claw.*

XIII POLYANDRIA.

1 MONOGYNIA.

CHELIDONIUM. *Smith.* 562. *With.* 483.

Cal. diphyllus. *Petala* 4. *Siliqua* supera, bivalvis, unilocularis, linearis. *Semina* plurima, cristata.

Bloss. 4 *petals.* Cal. 2 *leaves.* Pod. *strap-shaped.* Receptacle *of the seeds (generally) lattice-like.*

CHELIDONIUM. *majus.*

C. *Fruit-stalks forming umbels.*

CELANDINE. Hedges and rough shady places, Newark; Walls of Southwell Church-yard. P. May, June.

PAPAVER. *Smith.* 565. *With.* 485.

Cal. diphyllus. *Petala* 4. *Stigma* radiatum. *Capsula* supera, sub stigmate persistente poris dehiscens.

Bloss. 4 *petals.* Cal. 2 *leaves.* Summit *target-shaped, radiated, scolloped.* Caps, *(often) many-celled, opening with holes underneath the permanent summit.*

* Capsulis hispidis.

1 *Capsules rough with stiff bristly hairs.*

P. capsulis clavatis hispidis, caule folioso multifloro. *Argemone.*

P. *Capsules club-shaped, bristly; stem leafy, many-flowered.*

LONG ROUGH-HEADED POPPY. Cornfields; common. Southwell. A. June, July.

* * Capsulis glabris.

2 *Capsules smooth.*

dubium. P. cadsulis glabris oblongis, caule multifloro piloso, setis pedunculosum adpressis foliis bipinnatifidis.

P. *Capsules oblong, smooth; stem many-flowered: fruit-stalks with bristles laid to: leaves wing-cleft, snipt.*

LONG SMOOTH-HEADED POPPY. Cornfields: chiefly in a light sandy soil. Blidworth. A. June, July.

Rhœas. P. capsulis glabris subglobosis, caule multifloro hispido: pilis omnibus patentibus, foliis pinnatifidis incisis.

P. *Capsules smooth, urn-shaped: stem hairy, many-flowered: leaves wing-cleft, jagged.*

COMMON RED POPPY. CORN ROSE. Amongst corn, and borders of fields; common. Southwell; Newark. A. June, July.

NYMPHÆA. *Smith.* 569. *With.* 488.

Cal. 4—5-phyllus. *Cor.* polypetala. *Stigma* radiatum, sessile. *Bacca* supera, multilocularis, polysperma.

Bloss. *many petals.* Cal. 4 *or* 5 *leaves.* Summit *round, flat, sitting.* Berry *superiour, lopped, many-celled.*

lutea. N. foliis cordatis integerrimis, calyce pentaphyllo petalis majore, stigmate integerrimo.

N. *Leaves heart-shaped, very entire: calyx 5-leaved, much larger than the petals.*

YELLOW WATER-LILY. Slow Rivers, pools, and ditches. River Devon, Markham Bridge, Newark; Langford Flee; Ditches in Collingham Meadows; Besthorpe-blacs pool; and in the Saire Ditch, between Balderton and Claypole. P. July.

N. foliis cordatis integerrimis. calyce tetraphyllo, staminibus germini insertis, stigmate lobato. *alba:*

N. *Leaves heart-shaped, very entire: calyx 4-cleft.*

WHITE WATER-LILY. Slow Rivers, ponds, and deep ditches. Langford Fleet, near Newark, with N. lutea, plentifully; ponds in the meadows between Collingham and the river; Cheyney Pool, near Nottingham. DERING. P. July.

TILIA. *Smith.* 571. *With.* 490.

Cal. quinquepartitus. *Petala* 5. *Capsula* supera, coriacia, obovata, angulata, quinquelocularis, quinquevalvis, basi dehiscens.

Bloss. *5 petals.* Cal. *with 5 divisions* Seed vessel *leather-like, globular, 5-celled, 5-valved, opening at the base.*

T. floribus nectario destitutis, foliis cordatis, ramificationibus venarum subtus villosis. *europæa.*

T. *Flowers without a nectary: berry 4-celled.*

LIME-TREE. LINDEN-TREE. Woods and hedges. T. July.

CISTUS. *Smith.* 572. *With.* 490.

Cal. pentaphyllus: foliolis inæqualibus. *Petala* 5. *Capsula* supera, angulata, trivalvis, polysperma.

Bloss. 5 *petals*. Cal. 5 *leaves*; 2 *of them smaller*. Caps. *from* 1 *to* 10-*celled*; *from* 3 *to* 10 *valved*.

Stipulati suffruticosi.

Somewhat shrub-like; *with stipulæ*.

Helianthemum. C. suffruticosus procumbens stipulatus, foliis ellipticо-oblongis subtus tomentoso-incanis.

C. *Trailing*: *stipulæ spear-shaped*: *leaves oblong*, *edges rolled back*, *somewhat hairy*.

COMMON DWARF CISTUS. Meadows and pastures, in a calcareous soil. Sides of Oxton Hill, near the Toll-bar. P. July, August.

III PENTAGYNIA.

AQUILEGIA. *Smith.* 578. *With.* 495.

Cal. nullus. *Petala* 5. *Nectaria* 5, cornicu-lata, inter petala. *Capsulæ* 5, distinctæ.

Calyx *none*. Petals 5. Nectaries 5, *horn-shaped*, *alternating with the petals*. Caps. 5, *distinct*.

vulgaris. A. nectariis incurvis vix petalis æqualibus, caule foliisque glabris.

A. *Nectaries bowed inwards*, *nearly equal to the petals*: *leaflets all on leaf-stalks*, *lobes distant*, *roundish*, *blunt-ish*.

COMMON COLUMBINE. Woods and thickets; not common. Wigley's Wood, at Broxtow. Asply Wood, near Nottingham. DERING. P. July.

IV HEXAGYNIA.

STRATIOTES. *Smith.* 579. *With.* 495.

Spatha diphylla. *Perianthium* superum, trifidum. *Petala* 3. *Bacca* sexlocularis.

Sheath 2 *leaves*. Cup 3-*cleft*, *or* 3 *leaves*. Petals 3. Berry 6-*celled*; 6-*corned*: *beneath*.

S. foliis ensiformi-triangulis aculeato-serratis. *aloides.*

S. *Leaves triangular-sword-shaped*: *edge fringed with prickles.*

WATER ALOE. WATER-SOLDIER. Slow streams, and fen ditches; rare. Claypits; Stow Park, near Newton. Dr. Buck. P. July.

V POLYGYNIA.

ANEMONE. *Smith.* 580. *With.* 498.

Cal. nullus. *Petala* 5—9 *Semina* plura.

Cal. *generally none.* Petals 5 *to* 10. Capsules *many, with awns or tails formed by the style.*

A. scapo involucrato unifloro, involucro trifido petiolato foliaceo, seminibus ecaudatis. foliolis incisis. *nemorosa.*

A. *Seeds pointed*: *leafits snipt*: *stem with* 1 *flower.*

WOOD ANEMONE. Woods, hedges, and hollow-ways; not uncommon. Thickets near Oxton Foll-bar; Eperstone; Oxton; Colwick, and Broxtow Woods. P. April.

CLEMATIS. *Smith.* 583. *With.* 500.

Cal. nullus. *Pet.* 4—6. *Semina* caudata. *Recept.* capitatum.

Cal. *none.* Petals 4, *rarely* 5 *or* 6. Styles *permanent.* Capsules *many, with tails.* Receptacle *a knob.*

Vitalba. C. foliis pinnatis; foliolis cordatis: petiolis scandentibus.

C. *Leaves winged: leafits heart-shaped, climbing.*

TRAVELLER'S JOY. Hedges and shady places, in a calcareous soil. Here and there in hedges, but rarely. DERING. S. July.

THALICTRUM. *Smith.* 583. *With.* 500.

Cal. nullus. *Petala* 4—5. *Semina* ecaudata.

Cal. *none.* Petals 4 *or* 5. Capsules *many, rather beaked.*

flavum. T. foliis bipinnatis: foliolis trifidis, caule sulcato, panicula ramosissima coarctata, floribus erectis.

T. *Stem furrowed, leafy: leafits acute, 3-cleft: panicle much branched, upright, compact: flowers upright.*

COMMON MEADOW-RUE. Moist meadows, pastures, and banks of rivers. Newark and Averham Meadows; ditch banks beyond Newark Bridge on the Kelham Road. P. July.

RANUNCULUS. *Smith.* 587. *With* 503.

Cal. pentaphyllus. *Petala* 5—8, intra ungues poro mellifero. *Semina* nuda.

Cal. *deciduous, 5 (or 3) leaved.* Petals 5, *(rarely 2, 3 or 8) with a nectariferous scale or pore within the claw.* Styles *permanent.* Seeds *incrusted, upright.*

* Foliis simplicibus.

1 *Leaves undivided.*

R. foliis ovato-lanceolatis obtusiusculis petiolatis, caule declinato. *Flammula.*

R. *Leaves egg-spear-shaped, on leaf-stalks: stem declining.*

LESSER SPEAR-WORT. Bogs, boggy meadows, and sides of rivulets; frequent. Quoree Close, Newark. P. June—Sept.

B. foliis lanceolatis acuminatis, caule erecto multifloro. *Lingua.*

R. *Leaves long spear-shaped: stem upright.*

GREAT SPEAR-WORT. Wet pastures and sides of lakes; rare. Basford Scottam, and on a Moor between Bridgeford and Gam-ton, copiously. DEERING. Although there does not appear to be any ground for imagining that DEERING was mistaken, I have not been able to find this Plant in either of these situations. It is, however, not impossible, that it may still exist there. I have walked nearly 80 miles, to ascertain this single habitat, others may be more fortunate.

P. July.

R. foliis cordatis angulatis petiolatis, petalis numerosis. *Ficaria.*

R. *Leaves heart-shaped, angular, on leaf-stalks: stem 1-flowered: flowers with 8 petals: calyx with 3 leaves.*

PILEWORT. LESSER CELANDINE. Meadows, pastures, hedge banks; common. P. April.

* * Foliis dissectis et divisis.

2 *Leaves dissected and divided, not uniform.*

auricomus. R. foliis radicalibus reniformibus tripartitis crenatis; caulinis digitatis linearibus, caule multifloro, calyce colorato.

R. *Root-leaves kidney-shaped, scolloped, cut: stem-leaves fingered, strap-shaped, stem many-flowered.*

WOOD CROWFOOT. GOLDILOCKS. Woods, groves, and hedges. Southwell; Eperstone. P. April---May.

sceleratus. R. foliis inferioribus palmatus; summis digitatis, fructibus oblongis.

R. *Lower-leaves hand-shaped, the upper fingered: fruit oblong.*

WATER-CROWFOOT. CELERY-LEAVED CROW-FOOT. Shallow waters and ditches. Newark; Southwell; Nottingham. A. June---Aug.

bulbosus. R. calycibus retroflexis, pedunculis sulcatis, caule erecto multifloro, foliis compositis, radice bulbosa.

R. *Root bulbous: calyx reflected: fruit-stalks furrowed: stem upright, many-flowered: leaves compound.*

BULBOUS CROWFOOT. BUTTER-CUPS. Meadows and pastures; very common. Newark; Southwell. P. May.

R. calycibus retroflexis acuminatis, caule erecto multifloro hirsuto, foliis ternatis, radice fibrosa. *hirsutus.*

R. *Root fibrous: stem hairy: calyx pimpled, hairy, taper, pointed, at length reflected.*

PALE HAIRY CROWFOOT. Moist clayey places, where water has stood during the winter; and borders of cornfields. Newark; Southwell; Nottingham. A. June---October.

R. calycibus patulis, pedunculis sulcatis, sarmentis repentibus, foliis compositis. *repens.*

R. *Calyx expanding: fruit-stalks furrowed: suckers creeping: leaves compound.*

CREEPING-CROWFOOT. Meadows, pastures, on rubbish, under hedges, and in gardens; common. Newark; Southwell. P. June---August.

R. calycibus patulis, pedunculis teretibus, foliis tripartito-multifidis: summis linearibus. *acris.*

R. *Calyx expanding: fruit-stalks cylindrical: leaves with 3 divisions, and many clefts, the uppermost strap shaped.*

UPRIGHT MEADOW CROWFOOT. Meadows and pastures; very common. Newark; Southwell. P. June.

R. seminibus aculeatis, foliis trifido-decompositis: laciniis linearibus. *arvensis.*

R. *Seeds prickly: upper leaves doubly compound, strap-shaped.*

CORN CROWFOOT. Cornfields common. Newark; Southwell. June.

R. foliis reniformi-subrotundis trilobis quinquelobisque integerrimis lævibus, caule repente. *hederaceus.*

R. *Leaves roundish, 3-lobed, very entire: stem creeping.*

IVY CROWFOOT. On the mud of slow shallow streams, watery places, and ditches. Edingley Moors. P. May---August.

aquatilis, R. foliis submersis capillaceis: emersis subpeltatis.

R. *Leaves under water hair-like: those above with nearly central leaf-stalks.*

WATER CROWFOOT. Ponds and ditches. Hollows by the road between Newark-bridge and Muskham bridge, plentifully. P. May- -June.

CALTHA. *Smith.* 599. *With.* 511.

Cal. nullus. *Petala* 5. *Nectaria* nulla. *Capsulæ* pliorimæ, polyspermæ.

Cal. *none.* Petals 5. Nectaries *none.* Caps. *several; many-seeded.*

palustris. CALTHA.

MARSH-MARIGOLD. Moist Meadows. Banks of rivers and pools common. Quonce Close, Newark; Southwell. P. May.

Classis XIV.

DIDYNAMIA.

Stamina 4, quorum 2 longiora.

GYMNOSPERMIA.

Semina nuda.

* Calyces subquinquefidi.

1 *Cups mostly 5-cleft.*

LEONURUS. *Antheræ* punctis osseis adspersæ.

LEONURUS. Anthers *sprinkled with hard particles.*

GLECHOMA. *Anth.* per paria cruciatæ.

GLECHOMA. Anthers *in pairs; each pair forming a cross.*

MENTHA. *Filamenta* distantia, recta. *Cor.* subæqualis.

MENTHA. Filaments *distant*: *straight.* Bloss. *nearly regular.*

TEUCRIUM. *Cor.* labium superius ultra basin bipartitum.

TEUCRIUM. Bloss. *without any upper lip*: *upper segment of the petal divided.*

AJUGA. *Cor.* lab. superius minimum.

AJUGA. Bloss. *upper lip shorter than the stamens.*

BETONICA. *Cor.* lab. superius planum, adscendens, tubo cylindrico. *Stam.* longitudine faucis.

BETONICA. Bloss. *upper lip flat; ascending;* Tube *cylindrical.* Stam. *as long as the mouth of the tube.*

LAMIUM. *Cor.* faux utrinque dentata.

LAMIUM. Bloss. *with a bristle-shaped tooth on each side the lower lip, (on each side the mouth.)*

GALEOPSIS *Cor.* lab inferius supra bidentatum.

GALEOPSIS. Bloss *with 2 teeth upon the lower lip.*

GALEOBDOLON. *Cor.* lab. inferius trifidum, lacuniis acutis.

GALEOBDOLON. Bloss. *upper lip entire, vaulted; lower lip 3 cleft; segments broad, acute.* Anthers *fleshy on the back.*

STACHYS. *Cor.* lab. inferius lateribus reflexum. *Stam.* deflorata ad latera reflexa.

STACHYS Bloss *lateral segments of the lower lip reflected.* Stamens *after flowering turned to the sides.*

NEPETA. *Cor.* lab. inferius crenatum; faux margine reflexo.

NEPETA. Bloss. *lower lip scolloped.* Mouth *with the edge reflected.*

BALLOTA. *Cal.* decemstriatus. *Cor.* lab. superius fornicatum.

BALLOTA. Cup *with* 10 *scores.* Bloss. *upper lip vaulted*

MARRUBIUM. *Cal.* decemstriatus. *Cor.* lab. superius rectum, bifidum.

MARRUBIUM. Cup *with* 10 *scores.* Bloss. *upper lip flat and straight.*

VERBENA. *Cal.* unico dente truncato. *Cor.* subæqualis, curva.

VERBENA. Bloss. *nearly regular; upper segment of the cup shorter.*

* * Calyces bilabiati.

2 *Cups* 2-*lipped.*

SCUTELLARIA. *Cal.* fructiferus operculatus.

SCUTELLARIA. Cup. *after flowering, closed with a cover, and resembling a helmet.*

THYMUS. *Cal.* fauce villis clausus.

THYMUS. Cup. *(mouth small;) closed with soft hairs.*

PRUNELLA. *Filamenta* omnia apice bifurca.

PRUNELLA. Filaments *all forked at the end.*

ORIGANUM. *Strobilus* calyces coligens.

ORIGANUM. Cups *forming a tiled cone.*

CLINOPODIUM. *Involucrum* multisetum calyces colligens.

CLINOPODIUM. Cups, *inclosed in an involucrum.*

ANGIOSPERMIA.

Semina pericarpio inclusa.

* Calyces quadrifidi.

1 *Caps 4-cleft.*

LATHRÆA. *Caps.* unilocularis. *Glandula* sub germine.

LATHRÆA. Caps. 1-*celled.* Bloss. *gaping*: *a* gland *under the base of the germen.*

BARTSIA. *Caps.* bilocularis. *Sem.* angulata.

BARTSIA. Caps. 2-*celled.* Bloss. *gaping.* Seeds *angular.*

RHINANTHUS. *Caps.* bilocularis. *Sem.* compresso plana imbricata.

RHINANTHUS Caps. 2-*celled.* Calyx *compressed.* Bloss. *gaping.*

MELAMPYRUM. *Caps.* bilocularis. *Sem.* bina, gibba, lævigata.

MELAMPYRUM. Caps. 2-*celled.* Bloss. *gaping.* Seeds 2; *bulging.*

EUPHRASIA. *Caps.* bilocularis. *Sem.* striata. *Anth.* spinosæ.

EUPHRASIA. Caps. 2-*celled.* Bloss. *gaping*: *lower* Anthers *with thorns.*

* * Calyces quinquefidi.

2 *Caps 5-cleft.*

LIMOSELLA. *Caps.* semibilocularis. *Cor.* campanulata, subæqualis.

LIMOSELLA. Caps. 1-*celled, many seeded.* Bloss. *bell shaped; regular.*

SCROPHULARIA. *Caps.* bilocularis. *Cor.* resupinata. *Lab.* segmento intermedio interno.

SCROPHULARIA. Caps. 2-*celled.* Bloss. *facing upwards; the lip with a middle segment more inward.*

DIGITALIS. *Caps.* bilocularis. *Cor.* companulata, subtus ventricosa.

DIGITALIS. Caps 2-*celled.* Bloss. *(tubular) bell-shaped; bellying on the under side.* Stam. *declining.*

ANTIRRHINUM. *Caps.* bilocularis. *Cor.* personata, subtus nectario prominente.

ANTIRRHINUM. Caps. 2-*celled.* Bloss. *gaping; with a projecting nectary beneath.*

PEDICULARIS. *Caps.* bilocularis. *Sem.* mucronata. *Cor.* personata; galea compressa.

PEDICULARIS. Caps. 2-*celled.* Bloss. *gaping.* Seeds *coated.*

* * * Calyces subdiphylli.

3 *Caps cloven.*

OROBANCHE. *Cal.* foliola lateralia, lobata. *Caps.* unilocularis.

OROBANCHE. Caps. 1-*celled.* Bloss. *nearly equal; 4-cleft:* a gland *under the base of the germen.*

XIV DIDYNAMIA.

1 GYMNOSPERMIA.

Calyces subregulares.

AJUGA. *Smith.* 604. *With.* 516.

Corollæ labium superius minimum, emarginatum. *Stamina* labio superiore longiora.

Bloss. *upper lip very small.* Stamens *longer than the upper lip.*

reptans. A. glabra, caule solitario, stolonibus reptantibus.

A. *Plant smooth; with creeping suckers: leaves egg-shaped, scolloped.*

COMMON BUGLE. Moist meadows, pastures, and woods; frequent. P. May.

TEUCRIUM. *Smith.* 606. *With.* 518.

Corollæ labium superius (nullum) ultra basin bipartitum divaricatum. *Stamina* exserta.

Bloss. *upper lip upright, deeply divided, even below the base: stamens in the division.*

Scorodonia. T. foliis cordatis serratis petiolatis, racemis lateralibus secundis, caule erecto.

T. *Leaves heart-shaped, serrated, on leaf-stalks: flowers in lateral bunches, pointing one way: stem upright.*

WOOD GERMANDER. WOOD SAGE. Woods, heaths, thickets, and ditch banks; not uncommon. On the hanging rocks over the Leen, in Nottingham Park; banks between Retford and Worksop. P. July.

NEPETA. *Smith.* 608. *With.* 519.

Corollæ labium inferius lacinula intermedia crenata: faux margine reflexo. *Stamina* approximata.

Bloss. *middle segment of the lower lip scolloped; mouth the edges reflected: stamens approaching.*

N. floribus spicatis, verticillis subpedicellatis, foliis petiolatis cordatis dentato-serratis. *cataria.*

N. *Flowers on spikes: whirls on short fruit-stalks: leaves on leaf-stalks, heart-shaped, tooth-serrated.*

NEP, or CAT-MINT. Hedges in a calcareous soil; not frequent. On Banks between Newark and Hawton; Bath at Mansfield; In a Hedge on the right-hand-side of the Road leading from Cuckney to Warsop.
P. July.

VERBENA. *Smith.* 608. *With.* 520.

Cor. infundibuliformis, subæqualis, curva. *Calycis* unico dente truncato. *Stamina* 2 sive 4. tenuissime arillata. *Semina* 2 sive 4.

Bloss. *funnel-shaped; segments nearly equal.* Calyx *one of its teeth lopped.* Seeds 2 *or* 4, *naked.*

V. tetandra, spicis filiformibus paniculatis, foliis multifido-laciniatis, caule subsolitario. *officinalis.*

V. *Spikes thread-shaped, panicled: leaves with many jagged clefts: stem solitary.*

COMMON VERVAIN. Waste places, stone walls, and sides of roads. Southwell; Halam; Edingley; Kirklington; Rudby near Ollerton; Maplebeck Churchyard.
P. July.

MENTHA. *Smith.* 609. *With.* 521.

Cor. subæqualis, quadrifida; lacinia latiore emarginata. *Cal.* quinquefidus. *Stam.* erecta, distantia.

Bloss. *nearly equal*; 4-*cleft*; *the broader segments notched at the end.* Stam. *upright, distant.*

sylvestris. M. spicis villosis subcontinuis, foliis dentato-serratis subtus præcipue tomentosis, bracteis subulatis.

M. *Spikes oblong*: *leaves oblong, serrated, cottony, sitting*: *stamens longer than the blossom.* LINN. *sometimes not longer.* HUDS.

HORSE MINT. Marshy and watery places; somewhat rare. Greet Bridge, Southwell; Trent Ditches, near Newark Bridge; Mansfield Bath; Thurgarton Hill. P. Augus., Sept.

rotundifolia. M. spicis subhirsutis interruptis, foliis ellipticis obtusis rugosis crenatis subtus villosis, bracteis lanceolatis.

M. *Spikes oblong*: *leaves roundish, scolloped, sitting.*

ROUND-LEAVED MINT. Watery places; rare. Near the Bath at Mansfield. DEERING. MARTYN. P. Augusl, Sept.

piperita. M spicis obtusis interne interruptis, foliis petiolatis subovatis glabriusculis, calyce basi glaberriono.

M, *Leaves egg-shaped, on leaf-stalks*: *stamens shorter than the blossom.*

PEPPER-MINT. Watery places. By the side of the Greet, near the Water-mill, at Southwell. P. Aug. Sept.

M. floribus capitatis verticillatisve, foliis petiolatis ovatis, calyce undique hirsuto, pedicellis retrorsum hispidis. *hirsuta.*

M. *Leaves egg-shaped, serrated, nearly sitting, downy: stamens longer than the blossom.*

HAIRY MINT. Sides of rivers, and wet places. P. August, Sept.

M. floribus verticillatis, foliis ovatis, caule ramosissimo patulo, calycibus basi pedicellisque glabris. *gentilis.*

M. *Leaves egg-shaped, acute, serrated: stamens shorter than the blossom.*

BUSHY RED MINT. Watery places, and sides of rivulets. Newark; Southwell; Mansfield. P. Aug.

M. floribus verticillatis, foliis ovatis, caule ramosissimo, calycibus campanulatis undique hirsutis pilis horizontalibus. *arvensis.*

M. *Leaves egg-shaped, acute, serrated: stamens as long as the blossoms.*

CORN MINT. Watery places, and moist cornfields. Newark; Southwell. P. June---Sept.

M. floribus verticillatis, foliis ovatis, caule prostrato, pedicellis calycibusque undique tomentosis: dentibus ciliatis. *Pulegium.*

M. *Leaves egg-shaped, blunt, somewhat scolloped: stems roundish, creeping: stamens longer than the bloss.*

PENNY ROYAL. Moist heaths and pastures; not common. Kirklington Water Mill. Wellow Green, and Gunthorpe. DERING. P. September.

GLECHOMA. *Smith.* 625. *With.* 525.

Cal. quinquefidus. *Antheræ* per paria in crucem conniventes.

Cal. *5-cleft.* Anthers *in pairs, each pair forming a cross.*

hederacea. G. foliis reniformibus crenatis.

G. *Leaves kidney-shaped, scolloped.*

GROUND-IVY. GILL. ALE-HOOF. Groves, hedges, and shady places; very common.
P. April, May.

LAMIUM. *Smith.* 626. *With.* 526.

Cal. quinquefidus, dentibus setaceis patentibus. *Cor.* labium superius integrum, fornicatum: inferius bilobum; faux inflata, utrinque margine dentata.

Bloss. *upper lip entire, vaulted; lower lip inversely heart-shaped: mouth with a bristle-shaped tooth on each side.*

album. L. foliis cordatis acuminatis petiolatis, verticillis vigintifloris.

L. *Leaves heart-shaped, tapering to a point, serrated, on leaf-stalks: flowers about 20 in a whirl.*

WHITE ARCHANGEL. WHITE DEAD NETTLE. On rubbish, cornfields, and ditch banks; common.
P. May, June.

purpureum. L. foliis cordatis obtusis petiolatis; superioribus confertis.

L. *Leaves heart-shaped, blunt, on leaf-stalks.*

RED ARCHANGEL. Rubbish, cornfields, and kitchen gardens; common.
A. May---Sept.

L. foliis floralibus sessilibus amplexicaulibus obtusis. *amplexicaule.*

L. *Floral-leaves sitting, embracing the stem, blunt.*

HENBIT. ARCHANGEL. GREAT HENBIT. Cornfields, and cultivated grounds; not uncommon. Southwell; Newark. A. Feb.---June.

GALEOPSIS. *Smith.* 628. *With.* 528.

Cal. quinquefidus, aristatus. *Cor.* labium superius crenatum, fornicatum; inferius supra bidentatum.

Bloss. *upper lip vaulted, somewhat scolloped; lower lip 3-cleft: mouth with a concave taper-pointed tooth on each side.*

G. internodiis caulinis æqualibus, foliis ovato-lanceolatis serratis villosis, corollæ galea crenato-incisa. *villosa.*

G. *All the whirls remote: calyxes tubular, very hairy; teeth spear-shaped, taper-pointed, short, straight.*

G. grandiflora. *With.*

DOWNY HEMP-NETTLE. Sandy cornfields; not very common. Cornfields at Farnsfield, Balderton, Barnby, and Coddington. A. July, August.

G. caule hispido: internodiis superne incrassatis, corolla calyce duplo longiore, galea rectiuscula. *Tetrahit.*

G. *Upper whirls nearly contiguous: calyx bellying; teeth very long, bristle-shaped, equal: stem swollen below the joints.*

COMMON HEMP-NETTLE. Hedge banks, borders of cornfields, and amongst rubbish; common. Newark; Southwell. A. July, August.

versicolor. G. caule hispido: internodiis superne incrassatis, corolla calyce triplo longiore: galea ventricosa.

G. *Upper whirls nearly contiguous: calyx tubular, shorter teeth strap-shaped, unequal, 3 of them larger.*

G. cannabina. *With.*

LARGE FLOWERED HEMP-NETTLE. BEE-NETTLE. Corn-fields, turnip-fields, and fallow grounds; not very common. Farnsfield, Barnby, Balderton, and Coddington. A. July, August.

GALEOBDOLON. *Smith.* 631. *With.* 530.

Cal. quinquefidus, inæqualis, aristatus. *Cor.* labium superius integerrimum, fornicatum; inferius trifidum, laciniis omnibus acutis.

Bloss. *upper lip entire, vaulted; lower lip without teeth, 3-cleft; segments broad, pointed.* Anthers *fleshy on the back.*

luteum. GALEOBDOLON.

YELLOW DEAD NETTLE. WEAZLE-SNOUT. Woods, shady places, and moist hedges. Westhorpe Dumble, near Southwell; and in the woods, at Flintham, Eperstone, Ossington, and Colwick. P. May.

BETONICA. *Smith.* 632. *With.* 531.

Cal. quinquefidus, aristatus. *Cor.* labium superius adscendens, planiusculum, inferius trifidum: tubus cylindricus.

Calyx *awned.* Bloss. *upper lip upright, flat; tube cylindrical.*

officinalis. B. spica interrupta, corollarum lacinia labii intermedia emarginata.

B. *Spike interrupted: blossom upper lip entire, lower lip the middle segment notched: calyxes smoothish.*

WOOD BETONY. Woods and shady groves. In Mr. Pocklington's plantations, between Newark and Winthorpe; Newark and Averham Meadows; and amongst gorse in the lane between Balderton and Coddington. P. July.---August.

STACHYS *Smith.* 632. *With.* 531.

Cal. quinquefidus, aristatus. *Cor.* labium superius fornicatum: inferius lateribus reflexum, lacinia intermedia majore, emarginata. *Stamina* deflorata versus latera reflexa.

Bloss. *Upper lip vaulted; lower lip bent back at the sides, the larger middle segment notched: stamens after shedding the pollen bent to the sides.*

S. verticillis sexfloris, foliis cordatis petiolatis — *sylvatica.*

S. *Six flowers in a whirl: leaves heart-shaped, on leaf-stalks.*

HEDGE WOUNDWORT. Hedges and woods; common. Newark. P. July.---August.

S. verticillis sexfloris foliis lineari-lanceolatis semiamplexicaulibus. — *palustris.*

S. *About six flowers in a whirl: leaves strap-spear-shaped, half embracing the stem, sitting.*

MARSH WOUNDWORT. Watery places and banks of rivers. Banks of the Greet Southwell; ditches near the Meadows at Newark; ditches on the road between Ratcliff and Nottingham. P. August.

arvensis. S. verticillis sexfloris, caule debili, foliis cordatis obtusis crenati subpilosis.

S. *Six flowers in a whirl: leaves blunt, almost naked: blossoms as long as the calyx: stem feeble.*

CORN WOUNDWORT. In cornfields; not uncommon. About Coddington; near Farnsfield Brick-Kilns. A. July---August.

BALLOTA. *Smith.* 635. *With.* 533.

Cal. hypocrateriformis, decemstriatus, quinquedentatus. *Cor.* labium superius crenatum, concavum.

Calyx *salver-shaped, with 5 teeth and 10 scores.* Bloss. *upper lip concave, scolloped.*

nigra. B. foliis ovatis indivisis serratis, calycibus superne dilatatis subtruncatis: dentibus patentibus.

B. *Leaves heart-shaped, undivided, serrated: calyx teeth tapering to a point.*

BLACK or STINKING HOREHOUND. On rubbish and in hedges; very common. P. July.---Aug.

MARRUBIUM. *Smith.* 636. *With.* 533.

Cal. hypocrateriformis, rigidus, decemstriasus. *Cor.* labium superius bifidum, lineare, rectum.

Calyx *salver-shaped, rigid, with 10 scores.* Bloss. *upper lip cloven, strap-shaped, straight.*

vulgare. M. dentibus calycinis decem setaceis uncinatis.

M. *Teeth of the calyx bristle-shaped, hooked.*

WHITE HOREHOUND. Road sides, and amongst rubbish. In the road leading from Blidworth to Kirkby; also about Balwell Stone-pits: on the right hand side of the road from Worksop to Ollerton. P. July.

LEONURUS. *Smith.* 637. *With.* 534.

Cal. pentagonus, quinquedentatus. *Cor.* labium superius concavum, villosum, integrum. *Antheræ* punctis nitidis adspersæ.

Anthers *sprinkled with shining particles.*

L. foliis superioribus lanceolatis trilobis integrisve. *Cardiaca.*

L. *Stem-leaves spear-shaped, 3-lobed.*

MOTHERWORT. Hedges and on rubbish and dunghills. On rubbish by the road side a little beyond Mansfield, on the Chesterfield road; hedge bottoms of a garden belonging to Mr. Brown, at the 3 mile house on the road from Newark to Lincoln. P. July.—Aug.

* * Calyces bilabiati.

CLINOPODIUM. *Smith* 638. *With.* 534.

Cal. bilabiatus. *Involucrum* multisetum verticillo subjectum.

Stamens *crooked.* Anthers *aphroaching.* Involucr. *bristle-shaped, beneath the whirls.*

C. verticillis hispidis, bracteis setaceis, pedicellis ramosis, foliis obsolete serratis. *vulgare.*

C. *Heads roundish, hispid: floral-leaves bristle-shaped.*

WILD BASIL. Meadows, hedges, and dry pastures, especially in a calcareous soil. Road between Southwell and Oxton: lane between Oxton and Calverton, and in the road between Redford and Worksop, plentifully. P. August.

ORIGANUM. *Smith.* 638. *With.* 535.

Strobilus tetragonus, spicatus, calyces colligens.

Flowers *forming a* 4 *sided spike-like cone.*

vulgare. O. spicis subrotundis paniculatis conglomeratis glabris, involucris ovatis calyce longioribus.

O. *Spikes roundish, panicled, clustered: floral leaves egg-shaped, longer than the calyx.*

COMMON MARJORAM. Thickets and hedges, in a calcareous soil. On banks in a lane leading to Cliffnook closes; on the Balderton road from Newark; in fields about Coddington. P. July.---August.

THYMUS. *Smith.* 639. *With.* 536.

Cal. bilabiatus, faux villis clausa. *Cor.* labium superius planum, emarginatum.

Calyx 2-*lipped*; *mouth closed with soft hairs.*

Serpyllum. T. floribus capitatis, caulibus decumbentibus, foliis planis ovatis obtusis basi ciliatis.

T. *Flowers in heads: stems creeping: leaves flat, blunt, fringed at the base.*

WILD THYME. MOTHER of THYME. Heaths and mountainous places. Nottingham Park; Sherwood Forest.

T. Serpyllum citratum. LEMON THYME.

Leaves with the scent of lemon peel. About Sir Richard Sutton's Temple on Sherwood Forest; in a close of the outerlies, Normanton; Edingley Moors. P. July, August.

Acinos. T. verticillis sexfloris, pedunculis simplicibus, caule adscendente ramoso, foliis acutis serratis, calyce gibboso.

T. *Flower in whirls, 1 upon each fruit-stalk: stems upright, somewhat branched: leaves acute, serrated.*

BASIL THYME. Dry hills on chalk and gravel. About Sir R. Sutton's temple on the forest at Blidworth; sandy closes about Beer-hill and Mansfield; Bulwell Limekilns.

T. verticillis pedunculatis multifloris dichotomis, foliis subserratis, villis calycinis inclusis. *Calamintha.*

T. *Fruit-stalks axillary, forked, as long as the leaves.*

Melissa Calmintha. LINN. *With.*

COMMON CALAMINT. Sides of roads and corn-fields. Lanes at North Collingham; on a lane between North and South Muskham, leading from the Turnpike. P. July.—August.

T. verticillis pedunculatis multifloris dichotomis folio longioribus, foliis serratis, villis calycinis prominentibus. *Nepeta.*

T. *Fruit-stalks axillary, forked, longer than the leaves: stem ascending, hairy.*

Melissa Nepeta. LINN. *With.*

LESSER CALAMINT. Sides of roads and corn-fields, and hedge banks. Fields about Cotlington.

SCUTELLARIA. *Smith.* 645. *With.* 540.

Cal ore subintegro: post florescentiam clauso operculato.

Calyx *rim nearly entire, closed after flowering: covered with a lid.*

S. foliis cordato-lanceolatis crenatis rugosis, floribus axillaribus. *galericulata.*

S *Leaves heart-spear-shaped, scolloped: flowers axillary.*

COMMON SKULL-CAP. Banks of rivers and edges of ponds. Ditch banks by the side of the road from Newark to Kelham; Edingley Moor. P. July, Aug.

PRUNELLA. *Smith.* 646 *With.* 540.

Filamenta bifurca, altero apice antherifera. *Stigma* bifidum.

Filaments *forked, one of the divisions bearing the anthers.* Summit *cloven.*

vulgaris. P. foliis omnibus ovato-oblongis petiolatis.

P. *All the leaves egg-oblong, serrated, on leaf-stalks; upper lip of the calyx lopped, 3-toothed.*

SELF HEAL. Meadows and pastures; not common. Southwell; Newark; Nottingham. P. July, Aug.

ANGIOSPERMIA.

1 Calyces quadrifidi.

BARTSIA. *Smith* 647. *With.* 541.

Cal. quadrilobus, subcoloratus. *Cor.* ringens, fauce clausa: *labium superius* concavum, longius; *inferius* æqualiter trifidum, reflexum. *Capsula* ovata compressa, bilocularis. *Semina* plurima, angulata.

Calyx 2-*lobed, notched at the end, the points (sometimes) coloured.* Bloss. *(sometimes) less coloured than the calyx; the upper lip longer.* Capsule 2 *celled.*

B. foliis lanceolatis serratis : superioribus alternis, floribus racemosis secundis, antheris glabris. *Odontites.*

B. *Upper leaves alternate, spear-shaped, serrated : flowers in bunches, pointing one way.*

Euphrasia Odontitis. LINN. *With.*

RED BASTIA. Cornfields and pastures ; common. Newark ; Southwell. A. July, August.

RHINANTHUS. *Smith.* 649. *With.* 542.

Cal. ventricosus, quadridentatus. *Cor.* galea compressa. *Caps.* bilocularis, obtusa, compressa. *Semina* imbricata, compresso-plana.

Calyx 4-*cleft*, *inflated*. Capsule 2-*celled*, *blunt*, *compressed*. Seeds *few*.

R. corollæ labio superiore fornicato, calyce glabro, foliis lanceolatis serratis. *Crista-galli.*

R. *Upper lip of the blossom compressed, and shorter : calyx smooth.*

YELLOW RATTLE. Meadows, pastures, and woods ; common. Southwell ; Newark. A. June.

EUPHRASIA. *Smith.* 650. *With.* 543.

Cal. cylindricus, quadridentatus, æqualis. *Cor.* labium superius bifidum ; inferius trilobum, laciniis bifidis. *Antheræ* spinis inæqualibus aristatæ. *Caps.* ovato-oblonga. *Semina* striata.

Cal. 4-*cleft*, *cylindrical*. Anthers, *the lower ones with one thorny lobe at the base*. Caps. 2-*celled*, *egg-oblong*. Seeds *few leaning backwards*.

officinalis. E. foliis ovatis lineatis argute dentatis.

E. *Leaves egg-shaped, streaked, sharply toothed.*

EYE-BRIGHT. Heaths, dry barren meadows and pastures. Newark; Southwell. A. July---Sept.

MELAMPYRUM. *Smith.* 651. *With.* 544.

Cal. tubulosus, quadrifidus. *Cor.* labium superius compressum, margine replicato. *Caps.* bilocularis, obliqua, hinc dehiscens. *Semina* bina, gibba.

Cal. 4-*cleft.* Bloss. *upper lip compressed, edges bent back.* Caps. 2-*celled, compressed, slanting, opening on one side.* Seeds *solitary, bulging.*

pratense. M. floribus secundis lateralibus: conjugationibus remotis, corollis clausis labio porrecto.

M. *Flowers lateral, pointing one way; leaves in distant pairs: blossoms closed.*

COMMON YELLOW COW-WHEAT. Woods and thickets. Eperstone Thickets, near Oxton. A. July, August.

LATHRÆA. *Smith.* 654. *With.* 547.

Cal. quadrifidus. *Glandula* depressa ad basin suturæ germinis. *Caps.* unilocularis, receptaculis fungosis lateralibus. *Semina* globosa.

Calyx *with* 4 *or* 5 *divisions.* Germen *with a depressed gland at the base of the seam.* Caps. 1-*celled: receptacles lateral, sponge like.*

L. caule simplicissimo, floribus pendulis labio inferiore trifido. *Sylvatica.*

L. *Stem undivided: flowers pendent; lower lip 3-cleft.*

GREATER TOOTH-WORT. In shady places, but very rare. At the roots of 2 large elm trees, in the garden of WILLIAM SHERBROOKE, Esq. at Oxton; and on the roofs of the hazels near the Stews at Oxton. Mrs. SHERBROOKE. P. April.

* * 2 Calyces quinquefidi.

PEDICULARIS. *Smith.* 655. *With.* 548.

Cal. subquinquefidus, ventricosus *Cor.* galea emarginata, compressa. *Caps.* bilocularis, mucronata, obliqua. *Semina* pauca, angulata, mucronata.

Calyx *5-cleft.* Caps. *2-celled. sharp-pointed, slanting.* Seeds *few, coated.*

P. caule solitario ramoso, calyce ovato piloso costato bilobo inæqualiter inciso. *Palustris.*

P. *Stem branched: calyx crested with callous dots: lip of the blossom slanting.*

MARSH LOUSEWORT. Marshes, ditches, moist meadows, and pastures. Oxton Bottoms; Edingley Moors.

P. caulibus pluribus simplicibus patentibus, calyce oblongo angulato glabro inæqualiter quinquelobo inciso. *Sylvatica.*

P. *Stem branched: calyx oblong, angular, smooth: lip of the blossom heart-shaped.*

PASTURE LOUSEWORT. Wet pastures and heaths. Coddington, Stapleford, and Langford Moors; Parks at Southwell; Oxton; Papplewick. P. June, July.

ANTIRRHINUM. *Smith.* 656. *With.* 549.

Cal. quinquepartitus. *Corollæ* basis deorsum prominens, nectarifera. *Caps.* bilocularis.

Calyx *with 5 divisions.* Bloss. *either bulging at the base; or ending in a spur.* Caps. 2-*celled, many seeded, opening at the top, and the divisions bent back.*

* Foliis dilatatis, caulibus laxis.

1 *Leaves angular.*

Cymbalaria. A. foliis cordatis quinquelobis alternis glabris, caulibus procumbentibus.

A. *Leaves heart-shaped, 5-lobed, alternate: stems trailing.*

IVY-LEAVED SNAP-DRAGON. Old walls. Walls of the Churchyard at Southwell; Kirkby Church P May---November.

spurium. A. foliis ovatis alternis, caulibus procumbentibus.

A. *Leaves egg-shaped, woolly: stem trailing.*

ROUND LEAVED FLUELLIN. Cornfields; not frequent. Clifton Hill. DEERING. A. July---Sept.

* * Foliis angustioribus, caulibus erectis.

2 *Leaves alternate.*

Linaria. A. foliis lanceolato-linearibus confertis, caule erecto spicato, calycibus glabris calcari brevioribus.

A. *Leaves spear-strap shaped, crowded: stem upright: spikes terminating, sitting: flowers tiled.*

COMMON YELLOW TOAD-FLAX Barren meadows, pastures, and hedges; common. Southwell; Newark; Mansfield. P. June, July.

A. foliis plerisque alternis lanceolatis obtusis pubescentibus, caule ramosissimo patulo calycibus calcari longioribus. *minus.*

A. *Leaves mostly alternate, spear-shaped, blunt: stem very much branched, spreading.*

LEAST SNAP-DRAGON. Gravelly cornfields; not common. Fields by the side of Warsop Wood. A. June---August.

* * * Corollis ecaudatis.

3. *Bloss. gaping: without a spur.*

A. corollis ecaudatis, floribus spicatis, calycibus obtusis villosis. *majus.*

A. *Blossoms without a spur: flowers in spikes: cups rounded.*

GREAT SNAP-DRAGON. Old walls. On the Walls of the Friars, Newark. P. July, August.

SCROPHULARIA. *Smith.* 662. *With.* 553.

Cal. quinquefidus. *Cor.* subglobosa, resupinata. *Caps.* bilocularis.

Cal. *5-cleft.* Bloss. *with 5 divisions; tube globular; the lower segment reflected.* Caps. *2-celled, partition double.*

S. foliis cordatis acutis basi trinervibus, caule acutangulo. *nodosa.*

S. *Leaves oblong-heart-shaped, 3-fibred at the base, corners of the stem acute.*

KNOTTY-ROOTED FIGWORT. Woods and moist hedges. Halam and Edingley Hills; Thickets near Oxton Toll-bar; Eperstone and Colwick Woods. P. July.

aquatica. A. foliis cordatis petiolatis decurrentibus obtusis, caule alato.

S. *Leaves heart-shaped, blunt, on leaf-stalks, running down the stem: corners of the stem edged with a membrane: bunches terminating.*

WATER FIGWORT. WATER BETONY. Watery places, and banks of rivers; very common. Newark; Southwell. P. July.

DIGITALIS. *Smith.* 665. *With.* 555.

Cal. quinquepartitus. *Cor.* campanulata, quinquefida, ventricosa. *Caps.* ovata, bilocularis, polysperma.

Cal. *with 5 divisions.* Bloss. *bell-shaped, 5-cleft, bellying.* Caps. *egg-shaped, 2-celled, many-seeded.*

purpurea. D. foliolis calycinis ovatis acutis, corollis obtusis: labio superiore integro, foliis pubescentibus.

D. *Segments of the calyx egg-shaped, acute: blossom blunt, upper lip nearly entire.*

PURPLE FOXGLOVE. Hedge banks, and sides of hills in dry gravelly or sandy soil; not uncommon. Sherwood Forest. B. June, July.

LIMOSELLA. *Smith.* 668. *With.* 557.

Cal. quinquefidus. *Cor.* quinquefia, subæqualis. *Stam.* perparia approximata. *Caps.* ovato, unilocularis, bivalvis, polysperma.

Cal. *5-cleft.* Bloss. *5-cleft, equal.* Stamens *approaching, in pairs.* Germen *2-celled.* Caps. *often 1-celled, 2-valved, many-seeded.*

LIMOSELLA. *aquatica.*

MUDWORT. Muddy and gravelly places, where water has stagnated during the winter; not very common. Gravel-pits, near Kirklington Mill. P. July, Aug.

* * * Calyces subdiphylli.

OROBANCHE. *Smith.* 668. *With* 557.

Cal. foliolis duobus, lobatis, lateralibus. *Cor.* ringens *Caps.* unilocularis, bivalvis, polysperma. *Glandula* sub basi germinis.

Cal. *somewhat cloven.* Bloss. *gaping* Germen *resting on a gland.* Caps. *1-celled, 2-valved, many seeded.*

* Bracteis solitariis.

O. caule simplici, corolla inflata: labii laciniis acutis æqualibus, staminibus glabris, stylo pubescente. *major.*

O. *Stem unbranched, pubescent: stamens the length of the blossom.*

GREATER BROOM-RAPE. Shady places at the roots of trees; somewhat rare. Two plants among broom, about half-way between Retford and Worksop, in a Plantation of Earl Manvers, at Thoresby; Manzer Gorze, left-hand side leading into Dillenah Wood, near Winkburn. P. June, July.

Classis XV.

TETRADYNAMIA.

Stamina 6, quorum 4 longiora.

SILICULOSA.

Pericarpium subrotundum.
Pouch not notched at the end.

DRABA. *Silicula* integra, valvis planiusculis, dissepimento parallelis.

DRABA. Pouch *with nearly flat valves.* Style *none.*

COCHLEARIA. *Silic.* subintegra, turgida, rugosa, bivalvis, polysperma.

COCHLEARIA. Pouch *heart-shaped.* Valves *blunt*; *bulging.*

CORONOPUS. *Silic.* subintegra, compressa, corrugata, evalvis, disperma.

CORONOPUS. Pouch *nearly entire, compressed, wrinkled*; *without valves*; *with* 2 *seeds.*

THLASPI. *Silic.* emarginata, obcordata; valvulis marginato-carinatis.

THLASPI. Pouch *inversely heart-shaped.* Valves *(in some species) bordered*; *keeled.*

IBERIS. *Silic.* emarginata, obcordatæ. *Pet.* duo exteriora majora.

IBERIS. *Two outermost petals the largest.*

SILIQUOSA.

Pericarpium longissimum, polyspermum.

* Calyx clausus, foliolis longitudinaliter conniventibus.

1 *Cup closed; the leafits approaching length ways.*

RAPHANUS. *Siliqua* torosa, suborticulata.

RAPHANUS. Pod *jointed.*

ERYSIMUM. *Siliqua* tetragona.

ERYSIMUM. Pod 4-*cornered.*

CHEIRANTHUS. *Germen* utrinque glandula notatum. *Sem.* plena.

CHEIRANTHUS. Germen *with a gland on each side its base.*

ARABIS. *Gland* quatuor, reflexæ. *Siliqua* linearis torulosa.

ARABIS. Glands 4; *within the leafits of the cup.* Summit *undivided.*

TURRITIS. *Siliqua* stricta, subangulata. *Cor.* erecta.

TURRITIS. Petals *upright.*

BRASSICA. *Siliqua* teretiuscula. *Sem.* globosa.

BRASSICA. Glands, 2 *within the shorter stamens*; 2 *on the outside the longer stamens.*

* * Calyx hians, foliolis superne distantibus.

2. *Cup open, the leafits wide asunder upwards.*

CARDAMINE, *Siliqua* elastice dissiliens, valvulis revolutis. *Stigma* integrum. *Cal.* subhians.

CARDAMINE. Pod *opening*. Valves *rolling back.*

SISYMBRIUM. *Siliqua* dehiscens valvulis rectiusculis *Cal.* patulus.

SISYMBRIUM. Pod *opening*. Valves *nearly straight* Cup *open.*

SINAPIS. *Siliqua* teretiuscula, dissepimento prominente. *Cal.* horizontaliter patens.

SINAPIS. Pod *opening*. Cup *expanding horizontally.*

TETRADYNAMIA.

1 SILICULOSA.

DRABA. *Smith.* 677. *With.* 565.

Silicula integra, ovali-oblonga: valvulis planiusculis, dissepimento parallelis. *Stylus* vix ullus.

Pouch *entire, elliptical-oblong, rather compressed.* Valves *flat, parallel to the partition.* Style *none.*

D. seapis nudis, petalis bipartitis, foliis lanceolatis subincisis hirtis. *verna.*

D. *Stalks naked: leaves sparingly serrated: petals divided.*

COMMON WHITLOW-GRASS. Walls and dry places; common. Newark; Southwell. A. March—April.

THLASPI. *Smith.* 683. *With.* 568.

Silicula emarginata, obcordata, polysperma: valvulis naviculatibus, marginato-carinatis.

Pouch *inversely heart-shaped, notched at the end.* Valves *like a keeled boat, often winged with a border: cells many seeded.*

T. siliculis orbiculatis compressis lævibus, foliis oblongis dentatis glabris. *arvense.*

T. *Pouches round and flat: leaves oblong, toothed, smooth.*

PENNY CRESS. SMOOTH MITHRIDATE MUSTARD. Cornfields, and amongst turnips. Fields between Sutton-upon-Trent and Marnham. A. June, July.

T. siliculis subrotundis glanduloso-punctatis superne marginatis, foliis sagittatis dentatio incanis. *campestre.*

T. *Pouches roundish: leaves arrow-shaped, toothed, hoary.*

COMMON MITHRIDATE MUSTARD. Cornfields, and sunny situations in a clayey soil. Brook-hill, near Kirkby. A June.

T. hirsutum, siliculis deltoideo-obcordatis, foliis radicalibus pinnatifidis. *Bursa Pastoris.*

T. *Pouches compressed, triangularly inversely heart-shaped, smooth, without a border. Root-leaves wing-cleft.*

COMMON SHEPHERD'S PURSE. Among rubbish, road sides, walls, cornfields, gravel-walks, and kitchen gardens; very common. Southwell; Newark.
A. March---Sept.

COCHLEARIA. *Smith.* 687. *With.* 571.

Silicula turgida, rugosa, polysperma: valvulis gibbis, obtusis.

Pouch *notched at the end, turgid, rough, many seeded.* Valves *bulging, blunt.*

Armoracia. C. foliis radicalibus oblongis crenatis; caulinis lanceolatis incisis integrisve.

Root-leaves spear-shaped, scolloped: stem-leaves snipt.

HORSE-RADISH. Sides of ditches, in gardens. Newwark; Southwell.
P. May.

officinalis. C. foliis radicalibus subrotundis, caulinis oblongis subsinuatis, siliculis globosis.

C. *Root-leaves heart-circular; stem-leaves oblong, a little indented.*

COMMON SCURVY-GRASS. Sea shores, and inland mountains. Not indigenous to this County, though found on Walls, at Kirkby. On Walls, at Wollaton. DEERING.
A. May.

CORONOPUS. *Smith.* 690. *With.* 574.

Silicula reniformis, compressa, corrugata, loculis evalvibus, monospermis.

Pouch *kidney-shaped, compressed, wrinkled: cells without valves; 1 seed in each cell.*

Ruellii. C. siliculis integris cristato-muricatis, stylo porrecto, corymbis paucifloris.

C. *Leaves wing-cleft: stem depressed.*

Cochlearia Coronopus. LINN. *With.*

COMMON WART-CRESS. SWINE'S CRESS. Cornfields, rubbish, road sides; common. Newark; Southwell. A. June---August.

IBERIS. *Smith.* 692. *With.* 575.

Cor. irregularis: petalis duobus exterioribus majoribus. *Silicula* polysperma, emarginata.

Bloss. *unequal, the two outer petals larger.* Pouch *roundish, compressed.* Partition *placed cross-ways*; 1 *seed in each cell.*

I. herbacea, foliis lyrato-sinuatis, caule centrali nudo simplici; lateralibus foliosis. *nudicaulis.*

I. *Herbaceous*: *leaves wing-cleft*: *stem naked, simple.*

NAKED-STALKED CANDY-TUFT. Gravelly places, and very barren heaths. In the lane leading to Stapleford Moors, from the Sleaford Turnpike; and on a bank by the road side under a Plantation belonging to Joseph Pocklington, Esq. North Muskham, near Newark; Radford Lings. DEERING. A. May.

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11 SILIQUOSA.

CARDAMINE. *Smith.* 696. *With* 576.

Siliqua elastice dissiliens, valvulis revolutis, dissepimento æqualibus. *Stigma* integrum. *Cal.* subbians. *Glandula* utrinque solitaria inter stamina breviora et calycem.

Pod *long 2-edged, opening with a jerk.* Valves *rolling back, parallel to the membranaceous partition.* Summit *a knob, entire.* Calyx *rather open.*

* Foliis pinnatis.

1 *Leaves winged.*

hirsuta. C. foliis pinnatis exstipulatis: foliolis rotundato oblongis incisis petiolatis.

C. *Leaves winged, leaflits opposite: stamens* 4.

HAIRY LADIES-SMOCK. Gravelly soil, on the driest banks, as well as in moist places, and by the sides of rivulets and springs. Farnsfield Carr.
A. March---June.

pratensis. C. foliis pinnatis: foliolis radicalibus subrotundis dentatis; caulinis lanceolatis.

C. *Leaflits of the root-leaves roundish, those of the stem-leaves spear-shaped: very entire.*

MEADOW LADIES-SMOCK. CUCKOO FLOWER. Moist meadows and pastures. Newark; Southwell. P. April, May.

amara. C. foliis pinnatis: foliolis radicalibus subrotundis; caulinis dentato-angulatis, caule basi radicante.

C. *Leaves winged: suckers from the bosom of the leaves: leaflits of the stem-leaves angular, sitting.*

BITTER-CRESS. BITTER LADIES-SMOCK. Near purls of water, rivulets, and banks of rivers, boggy places, moist meadows and pastures. On the Banks of the Greet, near the Hop Grounds, Southwell. P. April, May.

SISYMBRIUM. *Smith.* 700. *With.* 580.

Siliqua dehiscens valvulis rectiusculis. *Cal.* patens. *Cor.* patens.

Pod *cylindrical, opening.* Valves *straightish, about the length of the partition.* Calyx *and* Bloss. *expanding.*

S. siliquis declinatis, foliis pinnatis: foliolis cordato-subrotundis. *Nasturtium.*

S. *Leaves winged: leafits egg-shaped.*

WATER-CRESS. Springs, brooks, and rivulets. Newwark; Southwell. P. June, July.

S siliquis declinatis, foliis pinnatis, foliolis lanceolatis inciso-serratis. *sylvestre.*

S. Pods *oblong-egg-shaped, or cylindrical: leafits spear-shaped, serrated.*

CREEPING WATER-ROCKRT. Maashy and watery places, and banks of rivers. Banks of the ditches beyond the Bridge from Newark to Kelham; Edingley Moors; Farnsfield Carr; Oxton Stews.
P. June---Sept.

S. siliquis declinatis pedicellatis, foliis oblongis pinnatifidis serratisve, petalis calyce longioribus. *amphibium.*

S. *Pods oblong-egg-shaped: leaves wing-cleft, serrated: petals longer than the cup.*

GREATER WATER-ROCKET, or RADISH. Banks of rivers and ditches. Ditches beyond Newark Bridge, and on the banks of the Trent, near the Meadows. P. June---August.

S. foliis pinnato-decompositis subpilosis, petalis calyce minoribus. *Sophia.*

S. *Petals smaller than the cups; leaves doubly compound-winged.*

FLIX-WEED. Walls, and amongst rubbish, cornfields. Southwell; Newark. A. July.

ERYSIMUM. *Smith.* 706. *With.* 583.

Siliqua recta columnaris, exacte tetraedra. *Cal.* clausus. *Stigma* capitatum,

Pod *straight, strap-shaped, exactly* 4-*sided.* Cal. *closed.* Summit *a knob.*

officinale. E. siliquis rachi adpressis, foliis runcinatis.

E. *Pods pressed to the spike-stalk: leaves notched.*

COMMON HEDGE MUSTARD. Under walls and hedges, road sides, and among rubbish; very common. A. June, July.

Barbarea. E. foliis inferioribus lyratis: lobo terminali rotundato; superioribus obovatis dentatis.

Vulgaris E. *Pods indistinctly* 4-*cornered: leaves lyre-shaped, the terminating segment circular.*

YELLOW ROCKET. BITTER WINTER-CRESS. Walls, banks on the sides of running streams, watery places, and sometimes in cultivated fields. Ditches and banks of the Trent, Newark; Southwell; Nottingham. P. May---August.

Alliaria. E. foliis cordatis.

E. *Leaves heart-shaped.*

GARLICK HEDGE-MUSTARD. JACK BY THE HEDGE. SAUCE ALONE. Hedges, ditch banks, and shady places; common. Hedge bottoms, in shady lanes and road sides, Newark; Southwell. B. May.

CHEIRANTHUS. *Smith.* 709. *With.* 585.

Germen utrinque denticulo glandulato. *Cal.* clausus; foliolis duobus basi gibbis. *Semina* plana.

Germen *with a glandular tooth on each side.* Calyx *closed,* 2 *of its leafits bulging at the base.* Seeds *flat.*

C. foliis lanceolatis acutis subtus canescenti- *fruticu-*
bus, pubescentia simplicissima adpressa, *losus.*
caule fruticuloso, ramis angulatis.

C. *Leaves spear-shaped, acute, smooth: branches angular: stem shrub-like.*

Chereianthus. Cheiri. LINN. *With.*

WILD WALL-FLOWER. Old Walls and roofs. On the ruins of the Castle, at Newark, in abundance; Nottingham Castle. P. May, June.

ARABIS. *Smith.* 711: *With.* 587.

Glandulæ-nectariferæ quatuor, oblongæ, squamiformes, reflexæ. *Cal.* clausus; foliolis duobus basi gibbis. *Stigma* simplex. *Soliqua* linearis, torulosa.

Nectary, *glands* 4, *within the leafits of the calyx, resembling a reflected scale.* Pod *long, compressed, strap-shaped, entire and nobbed at the end.*

A. foliis pilosis subdentatis: radicalibus petio- *thalia-*
latis, caule ramoso, siliquis adscendentibus. *na.*

A. *Stem-leaves spear-shaped, on leaf-stalks, very entire: root-leaves egg-spear-shaped, toothed.*

COMMON WALL-CRESS. Walls, roofs, dry sandy banks, and cornfields. Quonce Close, at Newark; Banks in the Foot-paths going to Kelham from Newark; Hedges near Muskham Bridge, and Thorpe Toll-bar. A. April.

TURRITIS. *Smith.* 715. *With.* 588.

Siliqua longissima, stricta, sub-angulata. *Cal.* connivens, erectus. *Cor.* erecta.

Pod *very long, angular, stiff and straight.* Calyx *close, upright.* Bloss. *upright.*

glabra. T. foliis radicalibus dentatis hispidis; caulinis integerrimis amplexicaulibus.

T. *Root-leaves toothed, rough with hair; stem-leaves very entire, embracing the stem, smooth.*

SMOOTH TOWER-MUSTARD. Meadows, pastures, pits, and waste places, in a gravelly soil. By the Road about a mile beyond Blyth, on the left-hand; also in going from Cuckney, as you descend the hill into Warsop; Fields at Radford and Lenton. DEERING. A. May, June.

hirsuta. T. foliis omnibus hispidis, caule hirto pilis simplicibus patentibus, siliqua quadrangulari.

T. *All the leaves hisped: stem-leaves embracing the stem.*

HAIRY TOWER-MUSTARD. Rocks, stony places, old walls, and castles. Rock at Newstead, the seat of Lord Byron; Bulwell Lime Quarries. P. May.

BRASSICA. *Smith.* 717. *With.* 589.

Cal. erectus, subconnivens. *Semina* globosa. *Siliqua* teretiuscula; dissepimento prominente, subulato. *Glandulæ* nectariferæ quatuor.

Calyx *upright, close.* Glands 1 *between each shorter stamen and the pistil, and* 1 *between each pair of longer stamens and the calyx.* Seeds *globular.*

B. radice caulescente fusiformi, foliis lævibus: superioribus cordato-lanceolatis amplexicaulibus: inferioribus lyratis dentatis. *Napus.*

B. *The root a regular continuation of the stem; spindle-shaped.*

RAPE, NAVEW, or COLE-SEED. On ditch banks, and among corn. Newark; Southwell; Mansfield. B. May.

B. radice caulescente orbiculari depressa carnosa, foliis radicalibus lyratis scabris caulinis integerrimis lævibus. *Rapa.*

B. *The root a regular continuation of the stem; round, depressed, fleshy.*

TURNEP. Fields and gardens; common. B. April.

SINAPIS. *Smith.* 721. *With.* 594.

Cal. patentissimus. *Cor.* ungues recti. *Glandulæ nectariferæ* quatuor. *Siliqua* teretiuscula, dissepimento prominente.

Cal. *expanding.* Bloss. *claws upright.* Glands *between the shorter stamens and the pistil, and between the longer stamens and the calyx.* Pod *beaked, opening.* Valves *shorter than the partition.*

S. siliquis multangulis toroso-turgidis rostro ancipiti longioribus, foliis ovatis sublyratis. *arvensis.*

S. *Pods with many angles, swolnand bunched out by the seeds: smooth, longer than the two edged beak.*

CHARLOCK. WILD MUSTARD. Cornfields, and borders of fields. Newark; Southwell. A. May.

alba. S. siliquis hispidis torosis rostro ancipiti brevioribus, foliis pinnatifidis.

S. *Pods rough with hair: beak very long, slanting, sword shaped.*

WHITE MUSTARD. Cornfields, road sides, and in gardens. Newark; Southwell; Mansfield. A. June.

nigra. S. siliquis glabris tetragonis racemo adpressis, foliis summis lineari-lanceolatis integerrimis glabris.

S. *Pods smooth, laid flat to the spike-stalk.*

COMMON MUSTARD. Cornfields, ditch banks, and road sides. Newark. A. June.

RAPHANUS. *Smith.* 723. *With.* 596.

Cal. clausus. *Glandulæ nectariferæ* quatuor. *Siliqua* teres, torosa, subarticulata.

Cal. *close, upright.* Nect. *glands* 2 *between the shorter stamens and the pistil, and* 2 *between the longer stamens and the calyx.* Pod *round, but protuberating, with cells, and nearly jointed.*

Raphanistrum. R. siliquis articulatis lævibus unilocularibus.

R. *Pods round, jointed, smooth, of* 1 *cell.*

GREAT WHITE CHARLOCK. WILD RADISH. JOINTED CHARLOCK. Amongst corn, and borders of fields. Newark. A. June, July.

Classis XVI.

MONADELPHIA.

Filamenta inferne in unum corpus coalita.

PENTANDRIA.

Stamina 5 perfecta.

ERODIUM. Monogynia. *Fructus* pentacoccus, rostratus; rostra spiralia, introrsum barbata.

ERODIUM. *Pistil* 1. Fruit *beaked, separating into 5 capsules, each tipped with a long spiral awn, bearded on the inside.*

DECANDRIA.

Stamina 10.

GERANIUM. Monogyna. *Fruit* pentacoccus, rostratus: rostra recurva, nuda.

GERANIUM. *Pistil* 1. Common Receptacle *beaked.* Caps. 5 *dry berries; with a long beak; beaks bent back, naked.*

POLYANDRIA.

Stamina plurima.

Pistils many.

MALVA. Polygyna. *Cal.* exterior triphyllus. *Caps.* verticillatæ, monospermæ.

MALVA Outer cup 3 *leaves.* Seed-coats *several, in whirls*; 1 *seed in each.*

MONADELPHIA.

1 PENTANDRIA.

ERODIUM. *Smith.* 727.

Cal. pentaphyllus. *Cor.* pentapetala. *Glandulæ nectariferæ* 5. *Filamenta* 5, sterilia. *Fructus* pentacoccus, rostratus; rostra spiralia introrsum barbata.

Cal. 5-*leaved.* Pet. 5. Honey glands 5. Barren Filaments 5. Fruit *beaked, separating into* 5 *capsules*; *each tipped with a long spiral awn bearded inside.*

cicutarium. E. pedunculis multifloris, foliis pinnatis; foliolis pinnatifidis incisis.

E. *Flowers in umbels*: *leafits sitting, wing-cleft, blunt*: *petals entire.*

Geranium cicutarium. *With.*

HEMLOCK. STORK'S-BILL. Rubbish and banks, in a sandy soil; frequent. Farnsfield. A. June---Aug.

II DECANDRIA.

GERANIUM. *Smith.* 729. *With.* 600.

Cal. pentaphyllus. *Cor.* pentapetala. *Glandulæ nectariferæ* 5. *Fructus* pentacoccus, rostratus: rostra recurva, nuda.

Cal. *with* 5 *divisions.* Bloss. 5 *petals.* Pist. 1. Summits 5, *common receptacle beaked.* Seeds 5. *with a very long twisted tail bent back, naked.*

G pedunculis bifloris paniculatis erectis, calyce subaristato, capsulis carinatis: basi hispidis; apice corrugatis. *phæum.*

G. *Fruit-stalks solitary,* 2-*flowered, opposite the leaves: calyx somewhat awned: stem upright: petals waved.*

DUSKY CRANE'S-BILL. Mountainous pastures; very rare. Beyond Nottingham, in the way to Alfreton. Rev. G. CRABBE. P. May, June.

G. pedunculis bifloris, foliis subseptempartitis inciso-serratis, capsulis undique pilosis, staminus basi deltoideis. *pratense.*

G. *Leaf-stalks nearly central; leaves with many divisions, wrinkled; lobes with winged clefts, acute: petals entire.*

CROWFOOT-LEAVED CRANE'S-BILL. Moistish meadows and pastures; not uncommon. Newark. Averham, and Southwell Meadows. P. June, July.

roberti-anum. G. pedunculis bifloris, foliis subpedatis pinnatifidis quinquangularibus, calycibus decangularibus, capsulis rugosis.

G. *Leafits by fives or by threes, lobes wing-cleft: calyx with* 10 *angles.*

STINKING CRANE'S-BILL. HERB ROBERT. Walls, hedges, rubbish, and stony places. Newark; Southwell. A. May---October.

molle. G. pedunculis bifloris alternis oppositifoliis, foliis rotundatis lobatis tomentosis, capsulis corrugatis glabris.

G. *Fruit-stalks and floral-leaves alternate: petals cloven: calyx awnless: stem somewhat upright.*

DOVE'S-FOOT CRANE'S-BILL. Dry banks, cornfields, meadows, and pastures, in a sandy soil. Newark; Southwell. A. April---August.

dissectum. G. pedunculis bifloris, petalis emarginatis, foliis quinquepartitis laciniatis, capsulis hirsutis, seminibus reticulatis.

G. *Fruit-stalks shorter than the leaves: leaves 5 lobed, lobes 3-cleft or many-cleft: petals notched, seed coats with soft hairs.*

JAGGED-LEAVED CRANE'S-BILL. Road sides, borders of fields, and ditch banks. Newark; Southwell. A. May, June.

columbinum. G. pedunculis bifloris folio triplo longioribus, foliis quinquepartitis multifidis, capsulis glabris, seminibus reticulatis.

G. *Fruit-stalks longer than the leaves: leaves 5-lobed, lobes many-cleft: calyx 5 sided: seed-coats smooth.*

LONG-STALKED CRANE'S BILL. Cornfields, pastures, and hedges. Newark; Southwell; Mansfield. A. June, July.

III POLYANDRIA.

MALVA. *Smith.* 740. *With.* 612.

Cal. duplex; exterior subtriphyllus. *Caps.* plurimæ, monospermæ, in orbem dispositæ.

Calyx *double, the outer mostly of* 3 *leaves.* Capsules 8 *or more, in a whirl*; 1, *rarely* 2-*celled:* 1 *seed in each.*

M. caule erecto herbaceo, foliis septemlobatis acutis, pedunculis petiolisque pilosis. *sylvestris.*

M. *Stem rough: leaves 5 or 7-lobed, toothed: outer calyx leaflits partly united at the base.*

COMMON MALLOW. Hedges, foot-paths, and amongst rubbish; very common. Newark; Southwell. P. May --August.

M. caulibus prostratis, foliis cordato-orbiculatis quinquelobis, pedunculis fructiferis declinatis. *rotundifolia.*

M. *Stem prostrate: leaves heart-shaped circular, plaited, 5 or 7-lobed: fruit-stalks when ripe declining.*

DWARF- MALLOW. Road sides, among rubbish. Streets in Mansfield and Southwell. A. June---Sept.

moschata. M. foliis radicalibus reniformibus incisis; caulinis quinquepartitis pinnato-multifidis, calyce piloso.

M. *Stem upright: root-leaves kidney-shaped, cut: stem-leaves with 5 divisions: segments between winged and many-cloven: leafits of the outer cup distinct.*

MUSK MALLOW. Meadows, pastures, road sides, and ditch banks; not common. About the Temple, at Kirklington; Farnsfield; Mansfield; in the Foot-way between Oxton and Calverton; and on the Road between Retford and Worksop. P. July, August.

Classis XVII.

DIADELPHIA.

Filamenta in duo corpora connexa.

HEXANDRIA.

Stamina 6.

FUMARIA. *Cal.* diphyllus. *Cor.* ringens, basi gibbosa nectarifera. *Filam.* antheris tribus.

FUMARIA. Cal. 2 *leaves.* Bloss. *gaping, bulging at the base, and containing honey.* Filaments *with* 3 *anthers.*

OCTANDRIA.

Stamina 8.

POLYGALA. *Cal.* laciniæ 2 alæformes. *Cor.* vexillum cylindricum. *Legumen* obcordatum, biloculare.

POLYGALA. Cal. *with* 2 *segments like wings.* Bloss. *standard cylindrical.* Stamens *connected.* Caps. *inversely heart-shaped, 2-celled.*

DECANDRIA.

Stamina 10.

1 Stamina omnia connexa, seu monadelpha, tubo superne sæpius fisso.

1 *Stamens all united.*

SPARTIUM. *Filam.* germini adhærentia. *Stigma* adnatum, villosum.

SPARTIUM. Filaments *adhering to the germen.* Summit *hairy, growing to the upper side of the style.*

GENISTA. *Pistillum* deprimens carinam, vexillo reflexo.

GENISTA. Pistil *pressing down the keel.* Summit *rolled inwards.*

ULEX. *Cal.* diphyllus. *Legumen* vix calyce longius.

ULEX. Cup 2 *leaves.* Legumen *hardly longer than the cup.*

ANTHYLLIS. *Cal.* turgidus, legumen includens.

ANTHYLLIS. Cup *swoln and turgid*; *inclosing the legumen.*

ONONIS. *Cal.* quinquepartitus. *Legumen* rhombeum, sessile. *Vexillum* striatum.

ONONIS. Legumen *diamond-shaped, sitting.* Standard *scored.*

* * Stigma pubescens (necpriorum notæ)

2 *Summit downy*: *filaments* 9 *united*; 1 *distinct*

OROBUS. *Stylus* linearis, teretiusculus, supra villosus.

OROBUS. Style *slender, nearly cylindrical; woolly on the upper or inner side.*

LATHYRUS. *Stylus* supra planus villosusque.

LATHYRUS. Style *flat, and woolly above;*

VICIA. *Stylus* sub stigmate barbatus.

VICIA. Style *bearded under the* Summit.

ERVUM. *Stigma* capitatum, undique pubescens.

ERVUM. Cup *with* 5 *divisions, nearly equal; and nearly as long as the blossom.*

* * * Legumen sub-biloculare. (nec priorum notæ.)

3 *Legumen* 2*-celled.*

ASTRAGALUS. *Legumen* biloculare, gibbum.

ASTRAGALUS. Legumen 2*-celled, curved.*

* * * * Legumen submonospernum. (nec priorum notæ.)

4 *Legumen with about* 1 *seed.*

TRIFOLIUM. *Legumen* vix calyce longius, 1 sive polyspermum, non dehiscens, deciduum. *Flores* capitati.

TRIFOLIUM. Legumen *longer than the cup; with* 1 *or two seeds: flowers (mostly) in heads.*

* * * * * Legumen subarticulatum. (nec priorum notæ.)

5 *Legumens almost jointed; sometimes spiral.*

HEDYSARUM. *Legumen* articulis monospermis, compressis. *Carina* obtusissima.

HEDYSARUM. Legumen *with roundish compressed joints.* Keel *very blunt.*

ORNITHOPUS. *Legumen* articulatum, arcuatum.

ORNITHOPUS. Legumen *jointed*; *bent like a bow.*

HIPPOCREPIS. *Legumen* compresso-membranaceum, altera sutura pluries emarginatum, curvum.

HIPPOCREPIS. Legumen *compressed*; *membranaceous*; 1 *of the seams hollowed out with deep notches.*

MEDICAGO. *Legumen* spirale, compresso-membranaceum. *Pistillum* carinam deflectens.

MEDICAGO. Legumen *spiral*; *membranaceous*: *compressed.* Pistil *pressing down the keel.*

* * * * * * Legumen uniloculare, polyspermum. (nec priorum notæ.)

6 *Legumen* 1-*celled*; *many-seeded, (without the mark of the former sub-divisions.)*

LOTUS. *Legumen* teres, farctum. *Alæ* sursum longitudinaliter conniventes.

LOTUS. Legumen *cylindrical*; *filled with cylindrical seeds,*

XVII DIADELPHIA.

II HEXANDRIA.

FUMARIA. *Smith.* 748. *With.* 629.

Cal. diphyllus. *Cor.* ringens. *Filamenta* duo, membranacea, singula *antheris* tribus.

Calyx 2-*leaved*. Bloss. *gaping*. Filaments 2, *membranaceous*, *each supporting* 3 *anthers*. Caps. 1-*celled*, *many-seeded*.

F. spicis laxis, siliquis monospermis globosis emarginatis, caule difluso, foliolorum laciniis dilatatis. *officinalis*.

F. *Seed-vessels in bunches*, 1 *seed in each*: *stem spreading*.

COMMON FUMITORY. Cornfields, hedge banks, gardens; common. Newark; Southwell.
A. May---August.

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11 OCTANDRIA.

POLYGALA. *Smith*. 752. *With*. 622.

Cal. pentaphyllus: foliolis duobus maximis, alæformibus, coloratis. *Legumen* obcordatum, biloculare.

Calyx 5-*leaved*, 2 *larger wing-like*, *before the ripening of the seeds*, *coloured*. Caps. *inversely heart-shaped*, 2-*celled*. Seeds *solitary*.

P. floribus cristatis racemosis, caulibus herbaceis simplicibus procumbentibus, foliis linear-lanceolatis. *vulgaris*.

P. *Flowers in bunches*: *stems herbaceous*, *simple*, *trailing*: *leaves strap-spear-shaped*.

MILKWORT. Pastures and heaths; not uncommon. Newark; Southwell. P. June, July.

DECANDRIA.

SPARTIUM. *Smith.* 753. *With.* 623.

Stigma longitudinale, supra villosum. *Filamenta* monadelpha, germini adhærentia. *Cal.* deorsum productus.

Cal. *extending downwards; 2-lipped.* Filaments *adhering to the germen.* Summit *woolly above.*

scoparium. S foliis ternatis solitariisque, ramis inermibus angulatis.

S. *Leaves in threes, and solitary: branches without prickles, angular.*

COMMON BROOM. Dry pastures, and road sides in a sandy soil. In the Road between Retford and Worksop, plentifully. S. May, June.

GENISTA. *Smith.* 754. *With.* 624.

Cal. bilabiatus; labio superiore bidentato, inferiore tridentato. *Vexillum* oblongum, a pistillo staminibusque deorsum reflexum.

Calyx 2-*lipped, the upper* 2, *the lower* 3-*toothed.* Standard *oblong, bent back from the stamens and pistil.* Legumen *regular shaped.*

tinctoria. G. foliis lanceolatis glabris, ramis teretibus striatis erectis inermibus.

G. *Branches scored, cylindrical, upright: leaves spear-shaped, smooth: legumen cylindrical.*

DYER'S GREEN-WEED. WOOD WAXEN. Pastures, and borders of cornfields; frequent. S. July---August.

G spinis simplicibus, ramis floriferis inermibus, foliis ovato-lanceolatis. *anglica.*

G. *Very thorny; smooth: thorns simple and compound: leaves spear-shaped.*

NEEDLE GREEN-WEED. Heaths, and moist spongy ground. Edingley, Stapleford, and Langford Moors. PETTY-WHIN. S. May, June.

ULEX. *Smith.* 756. *With.* 626.

Cal. diphyllus. *Legumen* vix calyce longius. *Stam.* omnia connexa.

Calyx 2-*leaved.* Legumen *scarcely longer than the calyx.*

U. dentibus calycinis obsoletis conniventibus, bracteis ovatis laxis, ramulis erectis. *europæus.*

U. *Teeth of the calyx indistinct, converging: floral leaves egg-shaped, loose: branches upright.*

COMMON FURZE. WHIN or GORZE. Heaths, road sides, and pastures; very common. S. Feb--Aug.

U. dentibus calycinis lanceolatis distantibus, bracteis minutis adpressis, ramulis decumbentibus. *nanus.*

U. *Teeth of the calyx spear-shaped, distant: floral-leaves small, pressed to the calyx; branches expanding.*

U. europæus. Var. 2. *With.*

DWARF-FURZE. Heaths, road sides; not very common. Beyond Potter's Hill, in closes near Thurlby Moors. S. August---October.

ONONIS. *Smith.* 758. *With.* 627.

Cal. quinquepartitus; laciniis linearibus. *Vexillum* striatum, *Legumen* turgidum,

rhombeum, sessile. *Filamenta* monodelpha absque fissura.

Cal. *with 5 divisions; segments strap-shaped.* Standard *scored.* Filaments *united without an opening.* Segments *swoln, sitting, simple, of 1 cell.*

arvensis. O. caule villoso, ramulis demum spinescentibus, floribus subsolitariis, foliis subsimplicibus postice integerrimis.

O. *Flowers in bunches, 2 together; leaves 3 together, the upper ones solitary: branches without thorns, somewhat woolly.*

A. O inermis. *Hudson.* O. arvensis. *With.*

HAIRY REST-HARROW. Light sandy soil; not common. Blidworth. P. June.

B. O. spinosa. LINN. *With.*

THORNY REST-HARROW. CAMMOCK. Barren pastures, and hedge banks, in a sandy or marly soil; common. Southwell; Halam Hill. P. June---Aug.

ANTHYLLIS. *Smith.* 759. *With.* 629.

Cal. ventricosus. *Legumen* subrotundum, calyce tectum. *Stamina* monadelpha.

Calyx *bellying.* Legumen *roundish, covered.*

vulneraria. A. herbacea, foliis pinnatis inæqualibus, capitulo duplicato.

A. *Herbaceous: leaves winged, unequal: flowers in a double head.*

KIDNEY-VETCH LADIES-FINGER. Meadows and pastures, in a chalky or calcareous soil. Newark and Averham Meadows; Oxton Hill; Kirkby; Bulwell; and about Bankwood Farm, in the Spring close, on the side of Brockwood hill; near Thorney moor holt, at Southwell. P. June---August.

OROBUS. *Smith.* 761. *With.* 630.

Stylus linearis, teretiusculus, supra villosus. *Cal.* basi obtusus; laciniis superioribus profundioribus, brevioribus.

Calyx *blunt at the base; the 2 upper teeth shorter, but more deeply divided.* Style *thread-shaped.*

O. foliis pinnatis elliptico-lanceolatis, stipulis semisagittatis basi dentatis, caule simplici. *tuberosus.*

O. *Leaves winged, spear-shaped: stipulæ half-arrow-shaped, very entire: stem simple.*

COMMON OROBUS. HEATH PEA. Moist heaths, and woody situations; not common. Thickets near Oxton Tollbar; Eperstone Wood; Miss Tottie's Wood; Warnham Wood, near Kneesall.
P. May, June.

LATHYRUS. *Smith.* 763. *With.* 631.

Stylus planus, supra villosus, superne latior. *Cal.* laciniæ superiores duæ breviores.

Cal. 2 *upper segments shorter.* Style *flat, broader upwards; woolly on the upper surface.* Legumen *generally equal, broad.*

* Pedunculis unifloris.

1 *Fruit-stalks* 1 *flowered.*

L. pedunculis subunifloris, foliis simplicibus, stipulis subulatis. *Nissolia.*

L. *Leaves simple: stipulæ awl-shaped.*

CRIMSON LATHYRUS, or GRASS-VETCH. Borders of cornfields and pastures; rare. On the sides of the Cornfields on Beacon Hill, Newark. A. May.

* * Pedunculis multifloris.

2 *Fruit-stalks many-flowered.*

pratensis. L. pedunculis multifloris, cirrhis diphyllis subsemplicibus : foliolis lanceolatis.

L. *Tendrils with 2 leaves, quite simple : leafits spear-shaped.*

YELLOW LATHYRUS, MEADOW VETCHLING. Meadows, pastures, woods, thickets, and hedges. Newark; Southwell. P. July, August.

sylvestris. L. pedunculis multifloris, cirrhis diphyllis : foliolis ensiformibus, caule alato.

L. *Tendrils with 2 leaves : leafits sword-shaped : stem with membranaceous borders between the knots.*

NARROW-LEAVED LATHYRUS, or EVERLASTING PEA. Woods and hedges; not common. In the Hedge on the left-hand immediately after passing through the Tollbar on Debdon Hill, between Kelham and Caunton: Dr. Buck. Pales of Colwick Park. Mr. Brunton. P. July, August.

VICIA. *Smith.* 768. *With.* 635.

Stigma latere inferiori transverse barbatum.

Summit *bearded across underneath.* Legumen *generally with knot-like protuberances.*

* Pedunculis elongatis, multifloris.

1 *Fruit-stalks long ; many flowered.*

sylvatica. V. pedunculis multifloris, foliolis ellipticis, stipulis lunatis dentatis.

V. *Leafits ovate : stipulæ finely toothed.*

WOOD-VETCH. Woods and thickets. Eperstone and Flintham Woods; Manzer Gorze, in the Parish of Eakring, under a large Oak. P. July, Aug.

V. pedunculis multifloris, floribus imbricatis, foliolis lanceolatis pubescentibus, stipulis semisagittatis subintegris. *Cracca.*

V. *Flowers tiled: leafits spear-shaped, pubescent: stipulæ entire.*

TUFTED VETCH. Hedges, shady places, meadows, fields and willow beds; common. On the banks of the Trent ditches, and in the meadows, at Newark and Southwell. P. July, August.

* * Floribus axillaribus subsessilibus.

2. *Flowers 2 or more together, nearly sitting.*

V. leguminibus sessilibus subbinatis erectiusculis, foliis inferioribus retusis, stipulis dentatis notatis, seminibus lævibus. *sativa.*

V. *Legumens mostly in pairs, upright: leafits inversely spear-shaped, blunt, notched: stipulæ toothed: seeds compressed.*

COMMON VETCH. Dry meadows, pastures, and cornfields. Newark; Southwell. A. May, June.

V. leguminibus pedicellatis subquaternis erectis glabris, foliolis ovatis obtusis: exterioribus minoribus. *sepium.*

V. *Legumens mostly 4 together, upright: leafits egg-shaped, very entire, the outer ones gradually smaller.*

BUSH VETCH. Woods, hedges, pastures, meadows. Newark; Southwell; Mansfield P. May, June.

ERVUM. *Smith.* 775. *With.* 639.

Stigma capitatum, undique pubescens.

Calyx *with 5 divisions, as long as the blossom.*

tetrasperma. E. pedunculis bifloris, leguminibus glabris polyspermis.

E. *Fruit-stalks mostly 2 flowered; seeds 4, globular.*

SMOOTH TARE. Corn-fields, hedges, and borders of ploughed fields. Edingley Hill; Eperstone; Newark; Southwell.

hirsutum. E pedunculis multifloris, leguminibus hirsutis dispermis.

E. *Fruit-stalks many-flowered: seeds 2, globular.*

HAIRY TARE. Sandy corn-fields and meadows. Newark. Southwell. Edingley Hill. Eperstone. A. June.

ORNITHOPUS. *Smith.* 776. *With.* 640.

Legumen articulatum, teres, arcuatum.

Seed-vess. *cylindrical, but jointed and crooked.*

perpusillus. O. foliis pinnatis, leguminibus incurvis.

O. *Leaves winged: legumens bowed in, much larger than the wingea flower-scale.*

COMMON BIRD'S-FOOT. Sandy banks, road sides, heaths and pastures; very frequent. Newark; Nottingham Park. A. May.

HIPPOCREPIS. *Smith.* 777. *With.* 641.

Legumen articulatum, compressum, altera sutura pluries emarginatum, curvum.

Seed-vessel *many-celled, compressed, crooked, with several notches along one of the seams.*

comosa. H. leguminibus pedunculatis confertis arcuatis margine exteriore repandis.

H. *Legumens on fruit-stalks, crowded, bowed, serpentine.*

TUFTED HORSE-SHOE VETCH. Meadows and pastures in a calcareous soil; rare. In Nottingham Park, but not very common. DEERING. A diligent and repeated, though fruitless, search has been made in Nottingham Park for this plant, which I have not been able to find in Nottinghamshire. In the neighbouring county of Lincoln it grows very abundantly, with many other rare species, upon Ancaster Heath.

P. May---August.

HEDYSARUM. *Smith.* 778. *With.* 642.

Legumen articulis monospermis. *Cor.* carina transverse obtusa.

Keel *broad and blunt on the outer part.* Legumen *jointed,* 1 *seed in each joint.*

H. follis pinnatis, leguminibus monospermis aculeatis, corollarum alis longitudine calyces, caule elongato. *Onobrychis.*

H. *Leaves winged: legumens with* 1 *seed, prickly: wings as long as the calyx: stem growing long.*

SAINT-FOIN. Meadows and pastures, particularly in a chalky soil. Beacon Hill Fields, Newark.

P. June, July.

ASTRAGALUS. *Smith.* 779. *With.* 642.

Legumen biloculare gibbum.

Caps. *generally* 2-*celled*; *bulging*: *the solitary filaments cylindrical.*

A. caulescens prostratus, leguminibus subtriquetris arcuatis, foliis pedunculo longioribus; foliolis ovatis. *glycyphyllos.*

A. *Stems prostrate: legumens nearly 3-cornered, bent like a bow: leaves longer than the fruit-stalks: leafits oval.*

SWEET MILK-VETCH. Meadows, pastures, and ditch banks, especially in a calcareous soil. Hedge banks between Newark and Hawton; between the 3d Mile Post and Thorpe-lane Tollbar; and in the hedges going up the hill into Stoke, from the Tollbar. P. June.

TRIFOLIUM. *Smith.* 781. *With.* 645.

Flores subcapitati. *Legumen* vix calyce longius, non dehiscens, deciduum.

Flowers *mostly forming a head.* Capsule *or* Legumen *scarcely longer than the calyx; not opening, but falling off entire.*

* Meliloti. Leguminibus nudis polyspermis.

1 *Melilots. Capsules naked, 1-celled, containing several seeds.*

officinale. T. leguminibus racemosis nudis dispermis rugosis acutis, caule erecto.

T. *Capsules in bunches, often 2-seeded, wrinkled, acute: stem upright.*

T. Melilotus-officinalis. LINN. *With.*

COMMON MELILOT. Cornfields, meadows, and ditch banks, in clayey soil; Newark; Southwell. A. June, July.

* * Lotoidea. Leguminibus tectis polyspermis.

2 *Legumens covered; many-seeded.*

repens. T. capitulis umbellaribus, leguminibus tetraspermis, caule repente.

T. *Heads like umbels: legumens 4-seeded: stem creeping.*

WHITE TREFOIL. DUTCH CLOVER. Meadows and pastures. Newark; Southwell.

* * * Lagopoda. Calycibus sæpius villosis.

3. *Calyxes woolly.*

T. capitulis villosis subquadrifloris, involucro centrali reflexo rigido stellato fructum obvolvente. *subterraneum.*

T. *Heads woolly; 5-flowered; a rigid tuft from the centre reflected upon, and inclosing the fruit.*

SUBTERRANEOUS TREFOIL. Barren heaths and pastures, in sandy or gravelly soil. Quouce Hill Close, Newark; Langford; Sherwood Forest. A. May.

T. spicis densis, caulibus adscendentibus, corollis inæqualibus, dentibus calycinis quatuor æqualibus, stipulis aristatis. *pratense.*

T. *Spikes crowded: blossoms unequal: calyx with 4 of the teeth equal: stipulæ awned: stems ascending.*

COMMON PURPLE TREFOIL, or CLOVER. HONEYSUCKLE TREFOIL. Meadows and pastures. Cultivated near Newark, Southwell, Mansfield, Nottingham. P. May---Sept.

T. spicis laxis, caulibus flexuosis ramosis, corollis subæqualibus, stipulis subulato-linearibus. *medium.*

T. *Spikes loose; blossom nearly regular; stipulæ awl-shaped, converging; stems zig-zag, branched.*

ZIG-ZAG TREFOIL. In high calcareous soils; not uncommon. Halam Hill; Southwell. P. July.

T. spicis villosissimis subcylindraceis, dentibus calycinis setaceis corolla longioribus, *arvense*

foliolis obovato-linearibus.

T. *Spikes woolly, oval: teeth of the calyx bristle-shaped, woolly, equal.*

HARE'S-FOOT TREFOIL. Sandy pastures and corn-fields. Sides of the hills in the Quonce Close; Sandy pastures towards Hawton; in a nursery of mine at Balderton, frequent; Farnsfield; Blidworth
A. July, August.

* * * * Lupulina. Vexillis corollæ reflexis, demum scariosis.

4. *Hop Trefoils. Standard of the bloss. bent inwards permanent.*

procumbens. T. spicis ovalibus imbricatis, vexillis deflexis persistentibus sulcatis, caulibus procumbentibus, foliolis obovatis.

T. *Spikes oval, closely tiled, many-flowered: stems wide spreading.*

HOP TREFOIL. Dry meadows and pastures: sandy ground by road sides. Newark; Southwell; Mansfield.
A. June, July.

LOTUS. *Smith.* 793. *With.* 656.

Legumen cylindricum, strictum. *Alæ* sursum longitudinaliter coniventes. *Cal.* tubulosus.

Calyx *tubular.* Wings *converging lengthways, and upwards.* Legumens *straight, generally with cells.*

corniculatus L. capitulis depressis multifloris, caulibus decumbentibus, leguminibus teretibus patentibus.

L. *Heads of the flowers flatted at the top: stems herbaceous, trailing: legumens cylindrical, expanding.*

COMMON BIRD'S-FOOT TREFOIL. Meadows, pastures, heaths, and road sides; very common.
P. June---August.

MEDICAGO. *Smith.* 795. *With.* 658.

Legumen compressum, cochleatum, carinam corollæ a vexillo deflectens.

Pistil *bent, pressing down the keel and springing out of it with a jerk.* S. vess. *a legumen, compressed, bent, or twisted spirally.*

M. Pedunculis racemosis, leguminibus contortis, caule erecto glabro. *sativa.*

M. *Flowers in bunches: legumens narrow, regular, twisted: stem upright, smooth.*

LUCERNE. PURPLE MEDICK. Meadows, pastures, and ditch banks, cultivated at Newark Mansfield; Hoveringham. P. June, July.

M. spicis ovatis, leguminibus reniformibus venoso-corrugatis monospermis, caule procumbente. *lupulina.*

M. *Spikes oval: S. vessels kidney-shaped, with* 1 *cell, and* 1 *seed: stems trailing.*

BLACK MEDICK, or NONSUCH. Cornfields, meadows, and pastures. Newark; Southwell. A. May---August.

M. leguminibus cochleatis, stipulis subdentatis, caule diffuso. *polymorpha.*

M. *Fruit-stalks with* 2 *or* 3 *seed-vessels: legumens prickly: stipulæ toothed: leafits inversely heart-shaped: stems spreading*

A. M. polymorpha arabica. LINN. M. arabica. *With.*

HEART MEDICK, or CLAVER. Dry sandy pastures, borders of fields. On a bank by the foot closes between Newark and Kelham; on the outside of the Church-yard at Averham. S. May, June.

Classis XVIII.

POLYADELPHIA.

Filamenta in tria, vel plura, corpora connexa.

POLYANDRIA.

Stamina numerosa.

HYPERICUM. *Cal.* quinquepartitus, inferus. *Petala* 5. *Filamenta* in 3 vel 5 phalanges basi connata. *Capsula* polysperma.

HYPERICUM. Cal. *with* 5 *divisions beneath.* Bloss. 5 *petals.* Styles 1, 3 *or* 5. Capsules 1, 3 *to* 5 *celled.*

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1 POLYANDRIA.

HYPERICUM. *Smith.* 800. *With.* 663.

Cal. quinquepartitus, inferus. *Petala* 5. *Filamenta* multa, in 3 vel 5 phalanges basi connata. *Capsula* polysperma.

Cal. *with* 5 *divisions.* Petals 5. Filaments *numerous, united at the base into* 3 *or* 5 *sets.* Capsule *with* 3 *or* 5 *cells, and many seeds.*

H. floribus trigynis, caule quadrangulo herbaceo, foliis pellucido-punctatis, foliolis calycinis lanceolatis. *quadrangulum.*

H. *Leaves egg-shaped, with pellucid dots: stem 4-cornered.*

SQUARE ST. JOHN'S WORT. ST. PETER'S WORT. Moist hedges and shady places. Boggy ground in the Quonce Close, Newark; Oxton Stews; Edingley Moors. P. July, August.

H. floribus trigynis, caule ancipiti, foliis obtusis pellucido-punctatis, foliolis calycinis lanceolatis. *perforatum.*

H. *Stem 2-edged: leaves blunt; with pellucid dots.*

PERFORATED ST. JOHN'S WORT. Thickets, woods, hedges, dry banks. Barnby lane, Newark; Southwell. P. July, August.

H. floribus trigynis subcymosis, caule anciptiti prostrato, foliis ellipticis glabris. *humifusum.*

H. *Flowers auxillary, solitary: stems 2-edged, prostrate, thread-shaped: leaves smooth.*

TRAILING ST. JOHN'S WORT. Meadows, pastures, heaths. Ditch banks about Coddington, and in the lane leading to the Moors of Stapleford and Langford; Edingley Moor; Oxton Stews; Radley, adjoining Thurgaton Boundary.

H. floribus trigynis, calycibus serrato-glandulosis, caule erecto tereti, foliis ovatis pubescentibus. *hirsutum.*

H. *Calyx serrated with glands: stems cylindrical, upright: leaves egg-shaped, somewhat downy.*

HAIRY ST. JOHN'S WORT. Thickets, hedges, and woods Thickets near Oxton Tollbar; Eperstone and Oxton Woods; Westhorpe Dumble, near Southwell. P. June, July.

pulchrum. H. floribus trigynis, calycibus serrato-glandulosis, caule tereti, foliis amplexicaulibus cordatis glabris.

H. *Calyx serrated with glands: stem cylindrical: leaves embracing the stem, heart-shaped, smooth.*

SMALL UPRIGHT ST. JOHN'S WORT. Hedges, and heaths, in exposed sunny situations. Westhorpe Dumble, near Southwell; Stapleford and Langford Moors; Barnby Lane, amongst gorze bushes; and between Balderton and Coddington. P. July.

Classis XIX.

SYNGENESIA.

Antheræ in tubum connatæ. Flores compositi.

POLYGAMIA ÆQUALIS.

Flosculi omnes hermaphroditici, fertiles.

* Semiflosculosi Tournefortii; corollulis ligulatis omnibus.

1. *All the Florets strap-shaped.*

HYPOCHÆRIS. *Receptaculum* paleaceum. *Pappus* plumosus. *Cal.* subimbricatus.

HYPOCHÆRIS. Receptacle *chaffy*. Down *somewhat feathered*. Cal. *tiled*.

CICHORIUM. *Recept.* subpaleaceum. *Pappus* paleaceus, semine brevior. *Cal.* calyculatus.

CICHORIUM. Receptacle *somewhat chaffy*. Down *chaff like*. Cal *double*.

CREPIS. *Recept.* hispidiusculum. *Pappus* simplex, substipatatus. *Cal.* calyculatus, squamis deciduis, demum torulosus.

CREPIS. Receptacle *naked*. Down *hair-like*. Cal. *double, with scales of different shapes*.

HIERACIUM. *Recept.* nudiusculum, punctatum. *Pappus* simplex, sessilis. *Cal.* imbricatus, ovatus.

HIERACIUM. Receptacle *naked.* Down *hair-like*; *sitting.* Cal. *tiled*; *egg-shaped.*

HEDYPNOIS. *Recept.* nudum, punctatum. *Pappus* plumosus, sessilis, inæqualis. *Cal.* imbricatus, calyculatus.

HEDYPNOIS. Receptacle *naked, dotted.* Down *feathered, sitting, unequal.* Cal. *tiled, double.*

PICRIS. *Recept.* nudum *Pappus* plumosus. *Semina* transversim sulcata *Cal.* duplicatus; interior æqualis; exterior laxus.

PICRIS. Receptacle *naked.* Down *feathered*; *on a pedicle.* Cal. *double.*

TRAGOPOGON. *Recept.* nudum. *Pappus* stipitatus, plumosus. *Cal.* simplex, polyphyllus.

TRAGOPOGON. Receptacle *naked.* Down *feathered*; *on a pedicle.* Cal. *simple.*

LEONTODON. *Recept.* nudum. *Pappus* stipitatus, simplex. *Cal.* imbricatus, squamis laxiusculis.

LEONTODON. Receptacle *naked.* Down *on a pedicle* Cal. *tiled*; *scales flexible.*

LACTUCA. *Recept.* nudum. *Pappus* stipitatus, simplex. *Cal.* imbricatus, cylindraceus, margine membranaceo.

LACTUCA. Receptacle *naked.* Down *hair-like*; *on a pedicle.* Cal. *tiled*; *scales skinny at the edges.*

PRENANTHES. *Recept.* nudum *Pappus* sub-

sessilis, simplex. *Cal.* calyculatus. *Flosculi* simplici serie.

PRENANTHES. Receptacle *naked.* Down *hair-like.* Cal. *double*; *containing about 5 florets.*

SONCHUS. *Recept.* nudum. *Pappus* sessilis, simplex. *Cal.* imbricatus, ventricosus.

SONCHUS. Receptacle *naked.* Down *hair-like*; *sitting.* Cal. *tiled*; *bellying (at the base.)*

LAPSANA. *Recept.* nudum. *Pappus* nullus. *Cal.* calyculatus; foliolis interioribus æqualibus, canaliculatis.

LAPSANA. Receptacle *naked.* Down *none.* Cal. *double.*

* * Capitati. Corollulæ omnes tubulosæ, apice divaricato-putulæ.

2 *Flowers in globular heads.*

CARLINA *Cal.* ventricosus; squamis exterioribus spinosis; interioribus coloratis scariosis radiantibus. *Recept.* palaceum. *Pappus* plumosus.

CARLINA. Cal. *radiate.* Rays *coloured.*

ARCTIUM. *Cal.* globosus; squamis apice hamatis inflexis.

ARCTIUM. Cal. *scales bent inwards at the points, and hooked.*

CARDUUS. *Cal.* ventricosus; imbricatus; squamis spinosis. *Recept.* pilosum. *Pappus* deciduus.

CARDUUS. Cal. *with thorny scales*; *bellying.* Recept. *hairy.*

ONOPORDUM. *Cal.* ventricosus; squamis pa-

tentibus, spinosis. *Recept.* favosum, subpaleaceum

ONOPORDUM. Cal. *with thorny scales*: *bellying*. Recept. *like* a *honey-comb*.

SERRATULA. *Cal.* subcylindricus, imbricatus; squamis inermibus. *Pappus* persistens.

SERRATULA. Cal. *nearly cylindrical*; *tiled*: *scales rather acute, but not thorn-like.*

* * * Discoidei. Corollulæ omnes tubulosæ, erecto paralleli, apice planiusculi, densi.

3 *Florets all tubular.*

EUPATORIUM. *Recept.* nudum. *Pappus* scaber. *Cal.* imbricatus, oblongus. *Stylus* semibifidus, exsertus.

EUPATORIUM. Recept. *naked.* Down *feathered.* Cal. *tiled.* Pistil *very long.*

BIDENS. *Recept.* paleaceum. *Pappus* retrorsum scaber. *Cal.* polyphyllus. *Cor.* subinde radiata.

BIDENS. Recept. *chaffy.* Down *awn-like.* Cal. *tiled.*

POLYGAMIA SUPERFLUA.

Flosculi disci hermaphroditici; radii fæminii; omnes fertiles.

* Discoidei. Corollulæ radii obsoletæ.

1 *Florets all tubular.*

TANACETUM. *Recept* nudum. *Sem.* coronata. *Cal.* imbricatus, hemisphæricus. *Flosc.* radii trifidi, obsoleti, interdum nulli

TANACETUM. Recept. *naked.* Down *only a sort of border.* Bloss. *of the circumference* 3*-cleft.*

CONYZA. *Recept.* nudum. *Pappus* scaber. *Cal.* imbricatus, subrotundus. *Flosc.* radii trifidi.

CONYZA. Recept. *naked.* Down *hair-like.* Bloss. *of the circumference* 3*-cleft.*

GNAPHALIUM. *Recept.* nudum. *Pappus* scaber aut plumosus. *Cal.* imbricatus squamis scariosis coloratis. *Flosc.* radii subulati.

GNAPHALIUM. Recept. *naked.* Down *feathered, or hair-like.* Cal. *with skinny concave scales.*

ARTEMISIA. *Recept.* nudum, aut villosum. *Pappus* nullus. *Cal.* imbricatus squamis rotundatis conniventibus. *Flosc.* radii subulati, integerrimi.

ARTEMISIA. Recept. *almost naked.* Down *none.* Florets *in the circumference, without a petal.*

* * Radiati. Corollulæ radii ligulatæ.

2 *Flowers radiate.*

BELLIS. *Recept.* nudum, conicum. *Pappus* nullus. *Cal.* hemisphæricus, squamis æqualibus. *Sem.* obovata.

BELLIS. Recept. *naked.* Down *none.* Cal. *simple, with equal scales.*

MATRICARIA. *Recept.* nudum, cylindraceo-conicum. *Pappus* nullus. *Cal.* planiusculus, imbricatus, squamis margine scariosis.

MATRICARIA. Recept. *naked.* Down *none.* Cal. *tiled; scales acute.*

CHRYSANTHEMUM. *Recept.* nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.

CHRYSANTHEMUM. Recept. *naked.* Down *none.* Cal. *the inner scales membranaceous.*

PYRETHRUM. *Recept.* nudum. *Pappus* marginatus. *Cal.* hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.

PYRETHRUM. Recept. *naked.* Seeds *crowned with a membranaceous margin.* Cal. *hemispherical, imbricated with sharpish scales, bordered with a membrane.*

INULA. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii numerosissimæ, lineares. *Antheræ* basi bisetæ.

INULA. Recept. *naked.* Down *hair-like.* Anthers *with* 2 *bristles at the base.*

ERIGERON. *Recept.* nudum. *Pappus* simplex. *Cal.* imbricatus. *Cor.* radii lineares, angustissimæ numerosæ.

ERIGERON. Recept. *naked.* Down *hair-like.* Bloss. *in the circumference very slender.*

SOLIDAGO. *Recept.* nudum, scrobiculatum. *Pappus* simplex. *Cal.* imbricatus, squamis conniventibus. *Flosc.* radii circiter 5.

SOLIDAGO Recept. *naked.* Down *hair-like.* Bloss. *of the circumference about* 6; *remote.*

SENECIO. *Recept.* nudum. *Pappus* simplex. *Cal.* cylindricus, polyphyllus, æqualis, calyculatus, squamis apice sphacelatis.

SENECIO. Recept. *naked.* Down *hair-like.* Cal. *with the scales dead at the ends.*

TUSSILAGO. *Recept.* nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis, submembranaceus, basi ventricosus.

TUSSILAGO. Recept. *naked.* Down *hair-like.* Cal. *scales somewhat membranaceous.*

ANTHEMIS. *Recept.* paleaceum. *Pappus* submarginatus. *Cal.* hemisphæricus, squamis subæqualibus. *Flosc.* radii plures quam 5, oblongi.

ANTHEMIS. Recept. *chaffy.* Down *none.* Cal. *hemispherical.*

ACHILLEA. *Recept.* paleaceum. *Pappus* nullus. *Cal.* ovatus, imbricatus, inæqualis. *Flosc.* radii 5 ad 10, obcordato-subrotundi.

ACHILLEA. Recept. *chaffy.* Down *none.* Cal. *oblong, strap-shaped.* Florets *about* 5.

POLYGAMIA FRUSTRANEA.

Flosculi disci hermaphroditici; radii neutri, steriles.

CENTAUREA. *Recept.* setosum. *Pappus* simplex. *Cor.* radii infundibuliformes, longiores, irregulares.

CENTAUREA. Recept. *bristly.* Down *hair-like.* Bloss. *of the circumference tubular.*

XIX SYNGENESIA.

1 POLYGAMIA ÆQUALIS.

Semiflosculosi. Flosculi ligulati.

TRAGOPOGON. *Smith.* 812. *With.* 672.

Receptaculum nudum. *Cal.* simplex, polyphyllus. *Pappus* stipitatus, plumosus.

Receptacle *naked.* Calyx *simple.* Down *feathered.*

pratense. T. calycibus corollarum radium subæquantibus, foliis integris carinatis acuminatis; basi dilatatis, pedunculo tereti.

T. *Calyx as long as the rays of the blossom: leaves entire, quite straight: fruit-stalk cylindrical.*

YELLOW-GOAT'S-BEARD. Meadows and pastures. Newark, and Averham Meadows, plentifully; Southwell; Mansfield; and Nottingham. B. June.

PICRIS. *Smith.* 814. *With.* 673.

Recept. nudum. *Cal.* duplicatus; interior æqualis; exterior laxus. *Pappus* plumosus. *Semina* transversim sulcata.

Receptacle *naked.* Calyx *double.* Down *feathered.* Seeds *with transvere furrows.*

echioides. P. calyce exteriori pentaphyllo maximo aculeato, pappo stipitato, foliis repandis.

P. *Outer calyx of 5 leaves, larger than the inner; the inner awned.*

BRISTLY OX-TONGUE. Borders of fields. Hedge banks by the road, and on the borders of cornfields on Beacon Hill, Newark; Southwell. A. June, July.

SONCHUS. *Smith.* 815. *With.* 674.

Recept. nudum *Cal.* imbricatus, ventricosus. *Pappus* simplex, sessilis.

Recept. *naked.* Calyx *tiled, bellying.* Down *hair-like.*

S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis basi sagittatis margine scabris. *palustris.*

S. *Fruit-stalks and calyxes rough with hair, in a sort of umbel: leaves notched, arrow-shaped at the base.*

TALL MARSH SOW-THISTLE. Watery places, and banks of rivers; not common. Edingley Moor. P. July, August.

S. pedunculis calycibusque hispidis subumbellatis, foliis runcinatis denticulatis basi cordatis, radice repente. *arvensis.*

S. *Fruit-stalks and calyxes rough with hair, in a sort of umbel: leaves notched, heart-shaped at the base.*

CORN SOW-THISTLE. Cornfields and ditch banks. On Beacon Hill, Newark. P. August.

S. pedunculis tomentosis, calycibus lævibus foliis runcinatis dentatis. *oleraceus.*

S. *Fruit-stalks cottony: calyxes smooth.*

COMMON SOW-THISTLE. Cultivated ground, especially in a rich soil, dung-hills, and hedges; very common. A. July---September.

LACTUCA. *Smith.* 819. *With.* 676.

Recept. nudum. *Cal.* imbricatus, cylindraceus, margine membranaceo. *Pappus* simplex, stipitatus.

Receptacle *naked.* Calyx *tiled, cylindrical, the scales membranaceous at the edge.* Down *hair-like, on a pedicle.*

virosa. L. foliis horizontalibus denticulatis carina aculeatis.

L. *All the leaves horizontal, toothed; their mid-rib prickly on the back.*

STRONG-SCENTED LETTUCE. Ditch banks, borders of fields. In a hedge near the Greet Bridge, Southwell; on a bank between Coddington and the Shire Ditch, toward Beckingham; by the side of the road from Blyth to Bawtry. B. August, September.

saligna. L. foliis hastato-linearibus pinnatifidisque sessilibus carina aculeatis.

L. *Leaves halberd-strap-shaped, sitting; mid-rib prickly on the back.*

LEAST LETTUCE. Ditch banks and pastures in a chalky soil; rare. Near Bingham, before you enter the town from Bottesford, on the right hand bank. Rev. G. CRABBE. B. August.

PRENANTHES. *Smith.* 821. *With.* 678.

Recept. nudum. *Cal.* calyculatus. *Pappus* simplex, subsessilis, *Flosculi* simplici serie.

Receptacle *naked.* Calyx *double.* Down *hair-like, nearly sitting.* Florets *in a single row.*

muralis. P. flosculis quinis, foliis runcinatis.

P. *Florets 5: leaves notched.*

IVY-LEAVED LETTUCE. Walls, shady woods and thickets. Halam and Edingley Hills; Eperstone Park; Basford Church; Wet Lane between Papplewick and Hucknall. P. July.

LEONTODON. *Smith.* 822. *With.* 679.

Recept. nudum. *Cal.* imbricatus, squamis laxiusculis. *Pappus* simplex, stipitatus.

Receptacle *naked*. Calyx *tiled*; *the inner scales parallel, equal*. Down *hair-like*.

L. squamis calycinis exterioribus reflexis, foliis runcinatis dentatis glabris. *Taraxacum.*

L. *Outer scales of the calyx entire, reflected: leaves smooth, notched and acutely toothed.*

COMMON DANDELION. Meadows, pastures, road sides, ditch banks; common. P. April—July.

L. officinale. *With.*

HEDYPNOIS. *Smith.* 823.

Recept. nudum, punctatum. *Cal.* imbricatus, calyculatis. *Rappus* plumosus, sessilis, inæqualis.

Receptacle *naked, dotted*. Calyx *tiled, double*. Down *feathered, sitting, unequal*.

H. scapis unifloris, foliis dentatis, scabris, flosculis ore pilosis apice glandulosis. *hispida.*

H. *All the scales of the calyx upright: leaves toothed, very entire, hispid: bristle-like, hairs forked.*

Leontodon. hispidum. LINN. *With.* 681.

ROUGH HEDYPNOIS. Meadows and pastures. Newark, and Averham Meadows; Southwell. P. July.

H. scapis unifloris, foliis dentatis scabris, calyce glabriusculo, seminibus exterioribus pappo destitutis. *hirta.*

H. *All the scales of the calyx upright: leaves toothed, hairy; hairs undivided; outer row of seeds down-less.*

Leontodon hirtum. LINN. *With.* 682.

autumnalis. H. scapo ramoso, pedicellis squomosis, foliis lanceolatis dentato-pinnatifidis glabriusculis.

H. *Stem branched; fruit-stalks scaly; leaves spear-shaped, toothed, very entire, smooth; down mostly sitting.*

Leontodon autumnale. LINN. *With.*

AUTUMNAL HEDYPNOIS. Meadows and pastures; common. P. August.

HIERACIUM. *Smith.* 827. *With.* 682.

Recept. nudiusculum, punctatum. *Cal.* imbricatus, ovatus. *Pappus* simplex, sessilis.

Recept. *generally naked.* Calyx *tiled, egg-shaped: sometimes double.* Down *mostly sitting, hair-like; rarely feathered.*

* Scapo nudo unifloro.

1 *Stalk leafless,* 1 *flowered: down simple.*

Pilosella. H. foliis ellipticis integerrimis subtus tomentosis, stolonibus repentibus, scapo unifloro nudo.

H. *Leaves very entire, egg-shaped, cottony underneath; suckers creeping.*

MOUSE-EAR HAWKWEED. Very dry meadows, pastures, and walls; common. Newark; Southwell; Mansfield.

* * Caule folioso.

2. *Stem leafy. Down sitting.*

Murorum. H. caule paniculato, foliis radicalibus ovatis dentatis majoribus.

H. *Stem branched: root leaves egg-shaped, toothed: stem leaf smaller.*

WALL HAWKWEED. GOLDEN LUNGWORT. Woods, old walls, shady banks, and balks of corn-fields. Southwell Minster; Rocks in Nottingham Park. P July.

H. caule erecto multifloro, foliis ovato-lanceolatis dentato-serratis subamplexicaulibus subtus scabris. *sabaudum.*

H. *Stem upright, many-flowered: leaves egg-spear-shaped, toothed, half embracing the stem.*

SHRUBBY BROAD-LEAVED HAWKWEED. Woods and hedges. Edingley Hill; Halam Hill; Warsop Woods. P. August, Sept.

H. caule erecto subumbellato, foliis linearibus subdentatis sparsis. *umbellatum.*

H. *Leaves strap-shaped, somewhat toothed, scattered: flowers in a sort of umbel.*

NARROW-LEAVED HAWKWEED. Hedges and dry shady places, amongst gorse. Stapleford and Langford Moors; in Mr. Pocklington's plantation, Barnby Lane; between Coddington and Barnby; and near Balderton P. August, Sept.

CREPIS. *Smith.* 347. *With.* 688.

Recept, hispidiusculum. *Cal*, calyculatus, squamis deciduis demum torulosus. *Pappus* simplex, substipitatus.

Recept. *naked.* Calyx *double, the outer one deciduous.* Down *hair-like, sometimes standing on a pedicle.*

C. foliis radicalibus runcinatis; caulinis amplexicaulibus lanceolatis dentatis, caule glabro. *tectorum.*

C. *Leaves spear-shaped, notched; sitting, smooth; the lower ones toothed.*

SMOOTH HAWK'S-BEARD. SMOOTH SUCCORY HAWKWEED. Meadows, pastures, walls, roofs; road sides. Newark Meadows; Southwell.
A. June --Sept.

biennis. C. foliis runcinato-pinnatifidis scabris: lobis antice dentatis, calyce muricato subtomentoso.

C. *Leaves notched, with winged clefts, rough toothed within the base: calyx bristly.*

ROUGH HAWK'S-BEARD. Meadows and pastures in a calcareous soil, Halam Hill; Oxton Hill.
B. June, July.

HYPOCHÆRIS. *Smith* 840. *With.* 691.

Recept. paleaceum. *Cal.* subimbricatus. *Pappus* plumosus.

Recept. *chafly* Calyx *somewhat tiled.* Down *on a pedicle; feathered.*

glabra. H. glabriuscula, calycibus oblongis imbricatis, caulibus ramosis subfoliosis, foliis dentato sinuatis.

H. *Smooth: stem branched, leafless: leaves toothed and indented: calyx oblong, tiled.*

SMOOTH CAT'S EAR. Sandy and gravelly soils; rare. Oxton Forest. A. June---August.

radicata. H. foliis runcinatis obtusis scabris, caulibus rumosis nudis lævibus, pedunculis squmosis.

H. *Stem branched, naked, even: leaves notched, blunt, rough: fruit-stalks scaly.*

LONG-ROOTED CAT'S-EAR. Meadows and pastures; frequent. Newark; Southwell. P. June---Aug.

LAPSANA. *Smith.* 842. *With.* 693.

Recept. nudum. *Cal.* calyculatus; foliolis interioribus æqualibus, canaliculatis, *Semina* mutica.

Recept. *naked.* Calyx *double, all the inner scales channelled.*

L. calycibus fructus angulatis, caule panicu- *communis.*
lato, pedunculis filiformibus.

L. *Calyxes after flowering, angular: fruit-stalks slender, very much branched.*

NIPPLE-WORT. Hedges, shady places, cultivated ground, and amongst rubbish; very common.
A. June, July.

CICHORIUM. *Smith.* 843. *With.* 693.

Recept. subpaleaceum. *Cal.* calyculatus. *Pappus* paleaceus, semine brevior.

Recept. *somewhat chaffy.* Calyx *double.* Down *about 5 teeth, indistinctly hairy.*

C. Floribus geminis sessilibus, foliis runcina- *Intybus.*
tis.

C. *Flowers in pairs, sitting: leaves notched.*

WILD SUCCORY. Borders of cornfields. Fields at Normanton, near Southwell; Road side between Norwood and Kirklington. P. July, August.

* * CAPITATI. Flosculi tubulosi, apice divaricato-patuli.

ARCTIUM. *Smith.* 844. *With.* 694.

Cal. globosus; squamis apice hamatis inflexis.

Calyx *globular*: *scales with hooked points, bent inwards.*

Lappa. A. foliis cordatis inermibus petiolatis.

A. *Leaves heart-shaped, without thorns, on leaf-stalks.*

BURDOCK. CLOT-BUR. Road sides, rubbish, and ditch banks; common. B. July, August.

CARDUUS. *Smith.* 847. *With.* 697.

Cal. ventricosus, imbricatus: squamis spinosis. *Recept.* pilosum. *Pappus* deciduus.

Calyx *bellying, tiled*; *scales thorny*: Receptacle *hairy.*

* Foliis decurrentibus.

1. *Leaves decurrent.*

lanceolatus. C. foliis decurrentibus pinnatifidis hispidis: laciniis divaricatis, calycibus ovatis villosis, caule piloso.

C. *Leaves with winged clefts, hispid: segments straddling: calyxes egg-shaped, thorny, woolly: stem hairy.*

SPEAR THISTLE. Rubbish, road sides, and waste places; very common, B. June---Sept.

nutans. C. foliis interrupte decurrentibus spinosis, floribus cernuis, squamis calycinis lanceolatis superne patentibus.

C. *Leaves decurrent half-way down towards the next below; thorny: fruit-stalks crooked: calyx scales expanding upwards.*

MUSK THISTLE. Pastures in a calcareous soil, and road sides in a sandy or gravelly soil. Newark; Southwell. A. July, August.

C. foliis decurrentibus sinuatis spinosis, calycibus globosis subpedunculatis; squamis linearibus recurvatis. *acanthoides.*

C. *Leaves indented, thorny at the edge: calyxes on fruit-stalks, solitary, upright, woolly.*

CURLED or WELTED THISTLE. Ditch banks, on rubbish, borders of cornfields. Newark; Southwell; Nottingham

C. foliis decurrentibus pinnatifidis dentatis spinosis scabris, calycibus ovatis aggregatis spinulosis, pappo plumoso. *palustris.*

C. *Leaves toothed, thorny at the edge: flowers in bunches, upright: fruit-stalks without thorns.*

MARSH THISTLE. Marshy meadows, moist shady places, and wet pastures; frequent. B. July, Aug.

* * Foliis sessilibus.

2 *Leaves sitting.*

C. foliis sessilibus pinnatifidis spinosis, caule paniculato, calycibus ovatis spinulosis, pappo plumoso. *arvensis.*

C. *Leaves sitting, with winged clefts, thorny at the edge; calyxes egg-shaped, thorny; down feathered.*

Serratula arvensis. *With.* 696.

CREEPING THISTLE. WAY THISTLE. Cornfields and road sides; very common. P. July.

C. foliis amplexicaulibus repandis spinosis; radicalibus pinnatifidis, squamis calycinis foliaceis refractis margine aculeatis. *marianus.*

C. *Leaves embracing the stem, halberd-shaped and wing-cleft; thorny: calyx without any leaves near it: thorns channelled, and set with other little thorns.*

MILK THISTLE. Ditch banks, road sides, borders of cornfields, and on rubbish. Newark; Blidworth. A. August.

eriophorus. C. foliis sessilibus bisariam pinnatifidis spinosis scabris: laciniis alternis erectis, calycibus globosis villosis.

C. *Leaves with winged clefts pointing 2 ways, every other segment upright: calyxes globular, woolly.*

WOOLLY-HEADED THISTLE. Both in flat and mountainous meadows and pastures. Outerlies at Normanton; Kirklington; Road side beyond Debdon Hill Tollbar; Caunton; by the side of the Road from Southwell to Thurgarton, on the High Cross Hill. B. Aug.

acaulis. C. acaulis, calyce glabro.

C. *Stemless: calyx smooth.*

DWARF THISTLE. Mountainous and dry pastures, especially in a calcareous soil. Sherwood Forest, plentifully; Road on the Forest between Budby and Ollerton; on a Common between Darlton and Great Markham, near Tuxford. P. July, August.

ONOPORDUM. *Smith.* 856. *With.* 704.

Cal. ventricosus; squamis patentibus, spinosis. *Recept.* favosum, subpaleaceum.

Recept: *like a honeycomb.* Calyx *bellying.* Scales *sharp-pointed.*

Acanthium. O. calycibus squarrosis: spinis subulatis, foliis ovato-oblongis sinuatis utrinque lanatis.

O *Calyx scales expanding, their points standing out: leaves egg-oblong, indented.*

COTTON THISTLE. On rubbish and road sides; common. B. July.

CARLINA. *Smith.* 857. *With.* 704.

Cal. ventricosus; squamis exterioribus spinosis; interioribus coloratis, scariosis, radiantibus. *Recept.* paleaceum. *Pappus* plumosus.

Calyx *radiated*; *the scales next the blossoms long coloured.*

C. caule multifloro corymboso, floribus terminalibus, squamis calycinis exterioribus pinnatifidis; interioribus albidis. *vulgaris.*

C. *Stem with many flowers in a corymbus: flowers terminating: rays of the calyx yellow-white.*

COMMON CARLINE. Dry meadows, pastures, commons, and hedge banks. Sherwood Forest; about Mansfield; on the Forest between Rufford and Thoresby. B. June.

* * * DISCOIDEI. Flosculi tubulosi, erecto paralleli, apice planiusculi.

BIDENS. *Smith.* 858. *With.* 705.

Recept. paleaceum. *Pappus* aristis retrorsum scabris. *Cal.* polyphyllus. *Cor.* subinde radiata.

Recept. *chaffy.* Down *rough with straight awns.* Calyx *tiled.*

tripartita. B. foliis trifidis, calycibus basi foliosis, seminum aristis erectis subternis.

B. *Leaves 3-cleft: seeds upright.*

TRIFID BUR MARYGOLD. Marshy and watery places, and sides of ponds. Sides of the two Ponds in Appleton Closes, Newark; ditches in Collingham Meadows. A. August, Sept.

cernua. B. foliis lanceolatis serratis, floribus cernuis basi foliosis, seminum aristis erectis subquaternis.

B. *Leaves spear-shaped, embracing the stem: flowers on crooked fruit-stalks: seeds upright.*

NODDING BUR MARIGOLD. Wet ditches, and marshy places; not very common. Sides of a muddy Pond, near the Fleet, at North Collingham; near where B. tripartita grows, but not so plentiful; Edingley Moors; Farnsfield Carr. A. September.

EUPATORIUM. *Smith.* 859. *With.* 706.

Recept. nudum. *Pappus* scaber. *Cal.* imbricatus, oblongus. *Stylus* semibifidus, exsertus.

Recept. *naked.* Down *feathered.* Calyx *oblong, tiled.* Style *long, cloven half-way down.*

cannabinum. E. foliis digitatis.

E. *Calyx 5-flowered: leaves with finger-like divisions.*

HEMP AGRIMONY. Banks of rivers and brooks. Park ditches at Southwell; in brooks at Badby, near Ollerton; ditches between Ratcliff and Nottingham. P. July, August.

2 POLYGAMIA SUPERFLUA.

*DISCOIDEI.

TANACETUM. *Smith.* 862. *With.* 708.

Recept. nudum. *Sem.* coronata. *Cal.* imbricatus, hemisphæricus. *Flosculi* radii trifidi, obsoleti, interdum nulli.

Recept. *naked.* Down *none.* Calyx *hemispherical, tiled.* Florets *of the circumference* 3-*cleft, narrow-strap shaped; sometimes wanting.*

T. foliis bipinnatifidis inciso-serratis nudis. *vulgare.*

T. *Leaves doubly winged, cut, serrated.*

COMMON TANSY. Mountainous meadows and pastures. Banks of the ditches, beyond Newark Bridge, on the Kelham Road; by the road side between the 2d and 3d mile stones, beyond the bleach yard on the Lincoln Road from Newark, abundantly. P. July, Aug.

ARTEMISIA. *Smith.* 863. *With.* 708.

Recept. nudum, aut villosum. *Sem.* mutica. *Cal.* imbricatus, squamis rotundatis, conniventibus. *Flosc.* radii subulati, integerrimi.

Receptable *either slightly hairy, or naked.* Down *none.* Calyx *tiled; the scales roundish, closing.* Florets *radiate, none.*

A. foliis multipartitis sericeo-incanis, floribus hemisphæricis pendulis, receptaculo piloso; *Absinthium.*

A. *Leaves compound, many-cleft: flowers somewhat globular, pendent: receptacle woolly.*

COMMON WORMWOOD. Road sides, stony places, and among rubbish; common. Bowbridge Lane, Newark; between Winthorpe and Langford; and Collingham, plentifully. P. August.

vulgaris. A. foliis pinnatifidis planis incisis: subtus tomentosis, racemis simplicibus, floribus ovatis, receptaculo nudo.

A. *Leaves wing-cleft, flat, cut, cottony underneath: bunches simple, bending: florets of the circumference 5.*

MUGWORT. Borders of fields, ditch banks, and on rubbish; common: Newark; Southwell; Nottingham. P. August.

GNAPHALIUM: *Smith.* 867. *With.* 711.

Recept. nudum. *Pappus* scaber, aut plumosus. *Cal.* imbricatus, squamis scariosis coloratis. *Flosc.* radii subulati. *Flosculi* aliquot disci subinde abortivi.

Receptacle *naked.* Down *hair-like, or feathered.* Calyx *tiled.* Scales *at the edge roundish, skinny, coloured.*

rectum. G. caule erecto paniculato multifloro, foliis lineari-lanceolatis supra denudatis.

G. *Stem upright, terminating in a leafy compound spike: leaves strap-spear-shaped, almost naked on the upper side.*

UPRIGHT WOOD CUDWEED. Pastures and woods in a sandy soil. In Earl Harrington's Plantation, at Blidworth; Bilsthorpe. P. August.

uliginosum. G. caule ramosissimo diffuso, floribus confertis terminalibus.

G. *Stem branched, spreading: flowers crowded, terminating.*

MARSH CUDWEED. In watery places, especially where stagnant water has stood during the winter. Newark; Southwell; Mansfield. A. August.

G. caule erecto dichotomo, foliis lanceolatis, capitulis globosis multifloris lateralibus terminalibusque. *germanicum.*

G. *Panicle forked: flowers roundish, axillary, hairy: leaves acute.*

COMMON CUDWEED. Barren meadows, pastures, and road sides. Newark; Southwell; Edingley Moor; Oxton Bottoms. A. July, August.

CONYZA. *Smith.* 875. *With.* 717.

Recept. nudum. *Pappus* scaber. *Cal.* imbricatus, subrotundus. *Flosc.* radii trifidi.

Recept. *naked.* Down *hair-like.* Calyx *tiled, roundish.* Florets *of the circumference* 3-*cleft.*

C. foliis ovato-lanceolatis pubescentibus, caule herbaceo corymboso, squamis calycinis squarrosis foliaceis. *squarrosa.*

C. *Leaves spear-shaped, acute: stem herbaceous: flowers in corymbus: scales of the calyx with their points turned outwards.*

PLOWMAN'S SPIKENARD. Mountainous meadows and pastures, and road sides in a calcareous soil. On the Road half-way between Retford and Worksop; near Mr. Foljambe's House, at Osberton. B. July, Aug.

* * RADIATI.

ERIGERON. *Smith.* 876. *With.* 717.

Recept. nudum. *Pappus* simplex. *Cor.* radii lineares, angustissimæ, numerosæ. *Cal.* imbricatus.

Recept. *naked.* Down *hair-like.* Florets *of the circumference strap-shaped, very narrow.*

acre. E. caule racemoso, pedunculis subunifloris, foliis lanceolato-lingulatis sessilibus.

E. *Fruit-stalks alternate, with* 1, 2, *or* 3 *flowers.*

BLUE FLEA-BANE. Very dry meadows and pastures in a calcareous soil. In a Close behind Mr. Montague's House, at Papplewick; Bulwell Lime Quarries; on Sparken Hill, near Worksop. B. July, August.

TUSSILAGO. *Smith.* 878. *With.* 719.

Recept. nudum. *Pappus* simplex. *Cal.* simplex, polyphyllus, æqualis, submembranaceus, basi ventricosus.

Recept. *naked.* Down *hair-like.* Calyx *scales equal, as tall as the surface of the florets, somewhat membranaceous.*

Farfara. T. scapo unifloro squamoso, foliis cordatis angulatis denticulatis.

T. *Stalk with* 1 *flower; tiled: leaves somewhat heart-shaped, angular, finely toothed.*

COLT'S-FOOT. Pastures and moistish places, in moist, stiff, clayey soil, and on limestone rubbish; common. Southwell; Newark. P. March, April.

hybrida. T. thyrso oblongo, flosculis fæmineis plurimis; hermaphroditicis paucissimis, antheris discretis.

T. *Panicle oblong: female flowers numerous, without blossoms.*

LONGER-STALKED BUTTER-BUR. Moist meadows, and banks of ditches. Southwell Cotton Mill. P. April.

T. thyrso ovato, flosculis omnibus fere hermaphroditicis syngenesiis. *Petasites.*

T. *Panicle egg-shaped: female florets few.* LINN. *Entirely wanting in our plants.* WOODWARD.

COMMON BUTTER-BUR. Moist meadows and pastures, and banks of rivers. Greet-Bridge, Southwell; Marshes at Mansfield. P. April.

SENECIO. *Smith.* 881. *With.* 721.

Recept. nudum. *Pappus* simplex. *Cal.* cylindricus, polyphyllus, æqualis, calyculatus, squamis apice sphacelatis.

Recept. *naked.* Down *hair like, long.* Calyx *conical, double; the scales as if dead at the ends.*

* Floribus flosculosis.

1 *Florets all tubular.*

S. floribus radio destitutis sparsis, foliis pinnato-sinuatis amplexicaulibus dentatis. *vulgaris.*

S. *Leaves winged-indented, embracing the stem: flowers scattered.*

COMMON GROUNDSEL. SIMSON. Cultivated ground, rubbish, and road sides; very common. A. April---Sept.

* * Floribus radiatis, radio statim revoluto.

2 *Strap-shaped florets in the circumference rolled back.*

sylvaticus. S. radio revoluto, foliis pinnatifidis lobatis denticulatis, calyculo brevissimo, caule erecto stricto corymboso

S. *Leaves wing-cleft, finely toothed; stem branching into a corymbus; upright.*

MOUNTAIN GROUNDSEL. Dry gravelly heaths, and sandy ditch banks; not uncommon. Quonce-hill Close, at Newark; Oxton; Farnsfield. A. July.

* * * Floribus radiatis, radio patente; foliis pinnatifidis.

3 *Strap-shaped florets in the circumference expanding: leaves wing-cleft.*

tenuifolius S. radio patente, foliis pinnatifidis subrevolutis subtus pallidioribus pubescentibus, caule erecto villoso.

S. *Leaves winged; segments strap-shaped; lower leaves on long leaf-stalks: flowers forming a corymbus: stem upright.*

GROUNDSEL RAGWORT. Woods and hedges. Halam and Oxton Hill. P. July, August.

Jacobæa S. radio patente, foliis lyrato-bipinnatifidis divaricatis dentatis glabris caule erecto.

S. *Leaves lyre-shaped, almost winged: segments finely jagged: stem upright.*

COMMON RAGWORT. Meadows, pastures, and road sides: very common. P. July, August.

aquaticus. S. radio patente: flosculis ellipticis, foliis lyratis serratis; inferioribus obovatis integris, seminibus glabris.

S. *Leaves toothed, those at the root egg-shaped, those of the stem wing-cleft; the outer segment largest.*

MARSH RAGWORT. Ditches and watery places, and moist meadows. Edingley Moors; Farnsfield Carr; Oxton Stews. P. July, August.

SOLIDAGO. *Smith.* 889. *With.* 727.

Recept. scrobiculatum, nudum. *Pappus* simplex. *Cal.* imbricatus, squamis conniventibus. *Floscul* radii circiter quinque.

Recept. *naked.* Down *hair-like.* Florets *of the circumference about* 5. Calyx *scales tiled, laid close.*

S. caule subflexuoso angulato, racemis paniculatis erectis confertis. *Virgaurea.*

S. *Stem serpentine, branched: leaves mostly sitting: flowers in crowded panicles.*

COMMON GOLDEN ROD. Woods, hedges, heaths, copses. Banks between Coddington and Barnby. P. July---Sept.

INULA. *Smith.* 890. *With.* 730.

Recept. nudum. *Pappus.* simplex. *Cal.* imbricatus. *Cor.* radii numerossissimæ, lineares. *Antheræ* basi bisetæ.

Receptacle *naked.* Down *hair-like.* Anthers *with* 2 *bristles at the base.*

I. foliis amplexicaulibus cordato-oblongis tomentosis, caule villoso paniculato, squamis calycinis setaceis hirtis. *dysenterica.*

I. *Leaves embracing the stem, heart-oblong: stem woolly, forming a kind of panicle: scales of the calyx bristle-shaped.*

COMMON FLEABANE. Moist meadows and pastures, watery places, sides of brooks and rivulets. Banks of

the ditches beyond Newark Bridge, on the Kelham Road; Southwell; Nottingham; Mansfield. P. Aug.

BELLIS. *Smith.* 897. *With.* 733.

Recept. nudum, conicum. *Pappus* nullus. *Cal.* hemisphæricus, squamis æqualibus. *Sem.* obovata.

Recept. *naked, conical.* Down *none.* Calyx *hemispherical, with equal scales.* Seed *inversely egg-shaped.*

perennis. B. scapo nudo, radice repente.

B. *Stalk naked.*

COMMON DAISY. Meadows and pastures, very common. P. March---Sept.

CHRYSANTHEMUM. *Smith.* 898. *With.* 733.

Recept. nudum. *Pappus* nullus. *Cal.* hemisphæricus, imbricatus, squamis margine dilatatis, membranaceis.

Recept. *naked.* Down *none, but a kind of border.* Calyx *hemispherical, tiled; scales membranaceous at the edge.*

* Radio albo.

1. *Florets of the circumference white.*

Leucanthemum. C. foliis amplexicaulibus oblongis obtusis incisis basi pinnatifidis; radicalibus obovatis petiolatis.

C. *Leaves embracing the stem, oblong; serrated upwards, toothed at the base.*

GREAT WHITE OX-EYE. Dry Meadows, pastures, and walls. Newark; Southwell. P. June, July.

* * Radio luteo.

2 *Flowers entirely yellow.*

C. foliis amplexicaulibus glaucis superne laciniatis basi dentatis. *segetum.*

C. *Leaves embracing the stem, jagged upwards, tooth-serrated towards the base.*

YELLOW OX-EYE. CORN MARIGOLD. Cornfields; very common. A. June---August.

PYRETHRUM. *Smith.* 900. *With.* 735.

Recept. nudum. *Pappus* marginatus. *Cal.* hemisphæricus, imbricatus, squamis acutiusculis; margine scariosis.

Recept. *naked.* Down *none.* Calyx *hemispherical, tiled; scales rather pointed, skinny at the edge.*

P. foliis petiolatis compositis planis: foliolis ovatis incisis, pedunculis ramosis corymbosis, caule erecto. *Parthenium.*

P. Leaves compound, flat; leafits egg-shaped, cut: fruit-stalks branched.

Matricaria parthenium. *With.* 735.

COMMON FEVER-FEW. Waste places, hedges, and walls On the right hand side the road after you pass by the Church at Eakring. Upton Street on banks; a bank near Mr. Gilbert's house, Little Carlton, near Muskham. P. June, July.

P. foliis sessilibus pinnatis capillaceo-multifidis, caule ramoso patulo, corona seminum integra. *inodorum.*

P. *Leaves winged, many-cleft: stem branched, spreading.*

Chrysanthemum inodorum. *With.* 734.

CORN FEVER-FEW. SCENTLESS MAY-WEED. Cornfields and road sides. Amongst corn in Beaconfields, Newark; by the road side near the one mile stone between Southwell and Upton. A. Aug. Sept.

ANTHEMIS. *Smith.* 903. *With.* 737.

Recept. paleaceum. *Pappus* submarginatus. *Cal.* hemisphæricus, squamis subæqualibus. *Flosculi* radii plures quam quinque, oblongi.

Recept. *chaffy.* Down. *none.* Calyx *hemispherical, scales nearly equal.* Florets *of the circumference more than* 5.

Cotula. A. receptaculo conico; paleis setaceis seminibus muticis, foliis bipinnatifidis glabriusculis.

A. *Receptacles conical: chaff bristle-shaped: seeds naked.*

STINKING MAY-WEED, or CHAMOMILE. Cornfields, road sides, and borders of dunghills. Newark; Southwell; Mansfield. A. June, July.

ACHILLEA. *Smith.* 908. *With.* 741.

Recept paleaceum. *Pappus* nullus. *Cal.* ovatus, imbricatus, inæqualis. *Flosculi* radii quinque ad decem, obcordato-subrotundi.

Recept. *chaffy.* Down *none.* Calyx *egg-shaped, tiled: strap-shaped florets from* 5 *to* 10.

Ptarmica. A. foliis lanceolatis acuminatis argute serratis.

A. *Leaves strap-spear-shaped, embracing the stem, finely serrated.*

SNEEZE-WORT. YARROW. GOOSE-TONGUE. Moist meadows and shady places, and balks of cornfields. Edingley Moors; Stapleford and Langford Moors. P. July, August.

A. foliis bipinnatifidis pilosis : laciniis lineari- bus dentatis mucronatis, caulibus sulcatis. *Millefolium.*

A. *Leaves doubly winged, segments of the wings strap-shaped, toothed.*

COMMON YARROW. MILFOIL. Meadows, pastures, and road sides; very common. P. June---Aug.

III POLYGAM. FRUSTRANEA.

CENTAUREA. *Smith.* 909. *With.* 742.

Recept. setosum. *Pappus* simplex. *Cor.* radii infundibuliformes, longiores, irregulares.

Recept. *bristly.* Down *either feathered or hair-like.* Florets of the circumference *funnel-shaped, irregular, longer than the others.*

* Cal. squamis apice ciliatis

1 *Scales of the calyx serrated with fringe.*

C. squamis calycinis ovatis : ciliis capillaribus erectis, foliis inferioribus lyrato-angulatis superioribus ovatis. *nigra.*

C. *Calyx scales egg-shaped, fringe hair-like, upright. lower leaves lyre-shaped, angular; upper ones egg-strap-spear-shaped, and nearly entire.*

BLACK, or LESSER KNAPWEED. Meadows and pastures; very common. Newark; Southwell P. June---August.

Cyanus. C. squamis calycinis serratis, foliis linearibus integerrimis; inferioribus dentatis.

C. *Calyx scales serrated: leaves strap-shaped, very entire; the lower ones toothed.*

CORN BLUE-BOTTLE. Cornfields; common. Beacon-fields, Newark; Southwell; Mansfield. A. July, Aug.

Scabiosa. C. squamis calycinis ciliatis ovatis, foliis pinnatifidis: laciniis lanceolatis subdentatis pilosiusculis.

C. *Calyx scales fringed: leaves wing-cleft; segments spear-shaped.*

GREATER KNAPWEED. Borders of fields, and amongst corn; not uncommon. Beacon Hill, Newark; Halam; Farnsfield. P. July, August.

Classis XX.

GYNANDRIA.

Stamina pistillo, supra germen, inserta.

Stamens on the pistil.

DIANDRIA.

Stamina 2.

Stamens 2.

ORCHIS. *Nectarium.* corniculatum.
ORCHIS. Nectary *ending in a spur.*
SATYRIUM. *Nectarium* inflato-didymum.
SATYRIUM. Nectary *ending in a purse.*
OPHRYS. *Nectarium* subcarinatum, deflexum.
OPHRYS. Nectary *somewhat keeled*
SERAPIAS. *Nectarium* ovatum, gibbum, labio ovato.
SERAPIAS. Nectary *egg-shaped; bulging on the under side.*

GYNANDRIA.

1 DIANDRIA.

ORCHIS. *Smith.* 918. *With.* 21.

Nectarium corniforme, pone florem.

Nectary *like a horn, behind the flower.* Blossom *gaping.*

* Bulbis indivisis.

1 *Bulbs of the root undivided.*

bifolia. O. bulbis indivisis, nectarii labio lanceolato integerrimo: cornu longissimo, petalis lateralibus patentibus.

O. *Lip of the Nectary spear-shaped; very entire: horn very long: petals expanding.*

BUTTERFLY ORCHIS. Woods and thickets in a clayey soil; not uncommon Westhorpe, near Southwell; and in the following woods, Oxton, Kirklington, Winkburn, Combes, Eperstone, Flintham, Ossington, Muskham, Wernham, and Colwick. P. May, June.

B. Orchis bifolia. *Smith.* 918.

Var. 3. *Leaves 2 or 3, spear-shaped.*

Meadows and and pastures; not common. Southwell; and in the meadows leading to Oxton Wood; also closes between Winkburn and Kirklington. P. June.

The Orchis bifolia, is not mentioned by DERRING, who states that the Orchis barbata fœtida. "RAY'S SYN. "376, was found by him at the bottom of Clifton Hill, in April, and in the beginning of May, in Colwick Wood." This plant must unquestionably have been the Orchis bifolia; since neither Nottinghamshire, nor any county except Kent, can boast of that very scarce plant, the Orchis barbata fœtida of RAY, the Satyrium

hircinum of LINNÆUS, which flowers in June and July, and is justly denominated, in the Flora Britannica, the most rare of all the British Orchideæ. It was pointed out to SMITH in 1791, by the late Mr. LEWIN, at Darent near Dartford; and, had it not been for this fortunate discovery, we must have relied, as we have done for more than a century, upon the sole authority of the diligent and accurate RAY.

O. bulbis indivisis, nectarii labio trifido æquali integerrimo superne bicorni: calcari elongato filiformi. *pyramidalis.*

O. *Lip of the nectary 2-horned, 3 cleft; segments equal, very entire: horn long: petals somewhat spear shaped.*

PYRAMIDAL ORCHIS. LATE-FLOWERING ORCHIS. Dry pastures and meadows in a calcareous soil; not very common. Southwell; in a lane, the foot-road between Winkburn and Kirklington; Beacon Field sto e-pits, near Newark; Asply; in Mr. Bielby's meadow near Osmanthorpe; in the avenue leading to Norwood. P. June, July.

O. bulbis indivisis, nectarii labio quadrifido crenulato: cornu obtuso ascendente, petalis conniventibus mutinervibus. *Morio.*

O. *Lip of the Nectary, 4 cleft, finely scolloped: horn blunt, ascending: petals blunt, approaching: lip of the nectary with 3 lobes, the middlemost notched at the end.*

MEADOW ORCHIS Moistish meadows and pastures; frequent. Southwell; Newark. P. May, June.

O. bulbis indivisis, nectarii labio quadrifido crenulato; cornu obtuso, petalis exterioribus reflexis trinervibus. *mascula.*

O. *Lip of the nectary 4-lobed, finely scolloped: horn blunt: upper petals turned back.*

EARLY PURPLE ORCHIS. Meadows and pastures; common. Southwell; Newark; Nottingham; Mansfield. P. May.

ustulata. O. bulbis indivisis, nectarii labio quadrifido punctis scabro, cornu obtuso brevissimo petalis distinctis.

O. *Lip of the nectary with* 4 *clefts, rough with dots: horn blunt: petals distinct.*

DWARF ORCHIS. Dryish meadows and pastures; rare. In a close near Hailoughton Wood; Newark and Averham Meadows; in the meadows on the banks of the Trent between Hazleford and Nottingham. P. May, June.

* * Bulbis palmatis.

2. *Bulbs of the root hand-shaped.*

latifolia. O. bulbis subpalmatis, nectarii cornu conico: labio trifido, bracteis flore duplo longioribus.

O. *Bulbs somewhat hand shaped, straight: horn of the nectary conical: lip with* 3 *lobes; the lateral ones bent back: floral leaves longer than the flowers.*

MARSH ORCHES. Moist meadows and pastures, and marshy ground. Newark and Averham Meadows, in a low situation; bog in the Quonce Close, Newark; last close but one before you ascend the hill to the Ice House, Kelham; Parks, Southwell; Gamstone Meadow, near Nottingham. P. May, June.

maculata. O. bulbis palmatis divaricatis, nectarii cornu germinibus breviore: labio trilobo plano, petalis patentibus.

O. *Bulbs expanding: horn of the nectary shorter than the germen: lip flat: petals on the back upright.*

SPOTTED PALMATE ORCHIS. Woods and rich meadows; common. Southwell; Kirklington; Closes adjoining Wernham Wood. P. June, July.

O. bulbis palmatis, nectarii cornu setaceo germminibus duplo longiore: labio trifido integerrimo. *conopsea.*

O. *Horn of the nectary bristle-shaped, longer than the germen: lip cloven into 3: two of the petals very much expanding.*

AROMATIC ORCHIS. Meadows and pastures; rather rare. Road side of Bulwell hall, in a low situation; side of a water near Kirklington mill; In a meadow on the left-hand side the bridge which separates Halloughton and Thurgarton parishes; Gamston Meadow, near Nottingham; Averham Meadow, near Newark. P. June.

SATYRIUM. *Smith.* 927. *With.* 29.

Nectarium inflato-didymum, pone florem.

Nectary *behind the flower*; *inflated, roundish.*

S. bulbis palmatis, foliis ovatis obtusiusculis, nectarii labio lineari trifido; lacinia intermedia minima. *viride.*

S. *Bulbs hand-shaped: leaves oblong, blunt: lip of the nectary strap-shaped, 3-cleft; the middle segment indistinct.*

FROG SATYRION. Meadows and pastures in gravelly soil; rather rare. Cotton-mill meadow, Southwell: Newark and Averham meadows, but not plentiful; Mr. Willimot's meadow, at Normanton near Southwell; a close near Thorney-moor holt, and by the side of Westhorpe dumble near Southwell; in the closes at the bottom of Oxton hill, by the foot path leading to the village. P. June, July.

OPHRYS. *Smith.* 931. *With.* 32.

Nectarium subtus subcarinatum, deflexum.

Nectary *slightly keeled underneath.*

Nidus avis. O. bulbis fibroso-fasciculatis, caule vaginato aphyllo, nectarii labio bifido.

O. *Bulbs fibrous, bundled: stem sheathed, leafless: lip of the nectary cloven.*

BIRD'S-NEST OPHRYS. Woods and shady places; very rare. Eperstone woods; MISS COAPE SHERBROOKE. Lound woops; upper left-hand quarter, near Eakring; Brockwood-hill woods, near Thurgarton. P. May, June.

ovata. O. bulbis fibrosis, caule bifolio, foliis ellipticis, nectarii labio lineari bifido.

O. *Bulb fibrous: stem with two leaves: leaves egg-shaped: lip of the nectary cloven.*

COMMON TWAYBLADE. Woods and moist shady thickets; not unfrequent. Newark and Averham meadows; and in the following woods, Eperstone, Oxton, Colwick, Ossington, Flintham, and Wernham. P. June.

muscifera. O. bulbis subrotundis, caule folioso, nectarii labio quadrilobo elongato convexiusculo subpubescente, columna obtusa.

O. *Bulbs roundish; stem leafy; lip of the nectary convex, cloth like, with 3 divisions, the middle segment cloven.*

FLY OPHRYS, or ORCHIS. Meadows and pastures in a calcareous soil; but rare. Bulwell Lime Quarries, near Nottingham. Mrs. PADLEY. Aspley Grounds. DEERING. P. June.

apifera. O. bulbis subrotundis, caule folioso, nectarii labio convexo villoso quinquefido: lacinia terminali recurvata subulata.

O. *bulbs roundish: stem leafy: lip of the nectary with 5 lobes, the lobes bent in underneath, shorter than the petals.*

BEE OPHRYS, or ORCHIS. Meadows and pastures; but rare. Bulwell Lime Quarries, with O. muscifera. Mrs. PADLEY. Asply Grounds near Nottingham. DEERING. A few specimens have some years since, been found by Mr THOMAS CLARKE, of Kirby Hardwicke, in the grounds near his house;---It has also been collected among the Quarries at Mansfield.
P. July.

SERAPIAS. *Smith.* 942. *With.* 40.

Nectarium ovatum, gibbum, labio ovato.

Bloss. 6 *petals expanding.* Nectary *egg-shaped, bulging.* Lip *egg-shaped.* Caps. *beneath, 1-celled, 3-valved.*

S. foliis ovatis amplexicaulibus, floribus cernuis, labio integerrimo acuminato petalis breviore. *latifolia.*

S. *Leaves egg-spear-shaped, embracing the stem: flowers nearly horizontal: lip pointed, entire, rather shorter than the petals.*

BROAD-LEAVED HELLEBORINE. Woods, groves, and hedges. Eperstone Wood; Loundes Wood, near Eakring; Oxton-Wood; and in a little wood on the hill between Ossington and Scarthingmoor; Wernham Woods. P. July, August.

S. foliis lanceolatis amplexicaulibus, floribus cernuis, labio crenato obtuso petalis æquali. *palustris.*

S. *Leaves spear-shaped, embracing the stem: flowers nearly horizontal: lip scolloped, blunt, longer than the petals.*

S. longifolia. *With.*

MARSH HELLEBORINE Marshy and watery places. Boggy ground in a close at Halam Beck, near Southwell; Edingley Moors; near Kirklington Mill; in a moist close at Coddington. P. July, Aug.

Classis XXI.

MONOECIA.

Flores masculi et fæminei in eadem planta.

DIANDRIA.

Stamina 2.

LEMNA. Masc. *Cal.* monophyllus. *Cor.* nulla.
Fæm. *Cal.* monophyllus. *Cor.* nulla. *Pist.* quatuor. *Sem.* quatuor.

LEMNA. *Male.* Cal. 1 *leaf.* Bloss. *none.* Fæm. Cal. *monophyllus.* Cor. *nulla.* Stylus 1. Caps. *polysperma.*

LEMNA. M. Calyx 1 *leaf.* Bloss. *none.*
F. Capsule 1-*celled.*

TRIANDRIA.

Stamina 3.

SPARGANIUM. Masc. *Cal.* triphyllus. *Cor.* nulla.
Fæm. *Cal.* triphyllus. *Cor.* nulla. *Drupa* exsucca, monosperma.

SPARGANIUM. Catkin *roundish.* Cal. 3 *leaves.* Bloss. *none.*

F. Summit 2 *cleft.* Drupa *juiceless, with* 1 *or* 2 *seeds.*

CAREX. Masc *Amentum* imbricatum. *Cal.* gluma univalvis. *Cor.* nulla.

Fæm. *Ament.* imbricatum. *Cal.* gluma univalvis. *Cor.* nulla. *Stigmata* 2 vel 3. *Semen* arillo ventricoso tectum.

CAREX. Catkin *spike-like, tiled with husks.* Cal. 1 *leaf.* Bloss. *none.*

F. Nectary *inflated; with* 2 *or* 3 *teeth.* Summits 3, *rarely* 2 Seed 1, *sitting on the hair-like down.*

TYPHA. Masc. *Ament.* cylindraceum, pilosum. *Anth.* subternæ in filamento communi.

Fæm. *Ament.* cylindraceum. *Sem.* 1, pedicello pappuso.

TYPHA. Catkin *cylindrical.* Bloss. *none.*

M. Cal. *indistinct,* 3-*leaved.*

F Catkins *under the male flowers*; Cal. *soft hairs.* Seed 1, *sitting on the hair-like down.*

TETRANDRIA.

Stamina 4.

URTICA. Masc. *Cal.* tetraphyllus. *Cor.* nulla. *Germinis* rudimentum cyathiforme.

Fæm. *Cal.* diphyllus. *Cor.* nulla. *Sem.* 1, superum, nitidum.

URTICA. *Flowers male and female on the same, rarely on distinct plants.*

M. Cal. 4 *leaves.* Nectary *central; glass-shaped.*

F. Cal. 2 *valves.* Seed 1, *glossy.*

BETULA. Masc. *Cal.* amenti squama monophylla, trifida, triflora. *Cor.* quadripartita.

Fæm. *Cal.* amenti squama monophylla, subtrifida, biflora. *Styli* 2. *Semina* compressa.

BETULA. *Flowers male and female on the same plant.* Cal. 3-*cleft.* Bloss. *with* 4 *divisions.*

M. Cal. *containing* 3 *flowers.*

F. Cal. *containing* 2 *flowers.* Seeds *with a membranaceous border on each side.*

PENTANDRIA.

Stamina 5.

BRYONIA. Masc. *Cal.* quinquedentatus. *Cor.* quinquefida. *Filamen.* 3. *Anth.* 5.

Fæm. *Cal.* quinquedentatus. *Cor.* quinquefida. *Styl.* trifidus. *Bacca* infera, polysperma.

BRYONIA. *Stam. and pistil in separate flowers.* Bloss. *with* 5 *divisions.*

Fem. Style 3-*cleft.* Berry *somewhat globular, with many seeds.*

POLYANDRIA.

Stamina 8 vel plura.

MYRIOPHYLLUM. Masc. *Cal.* tetraphyllus. *Pet.* 4. *Stam.* 8.

Fæm. *Cal.* tetraphyllus. *Pet.* 4. *Stigmata* 4. sessilia. *Sem.* 4. corticata.

MYRIOPHYLLUM. Flowers *often M. and F. on the same plant.* Cal. 4 *leaves.* Bloss. *none.*

F. Style *none.* Seeds 4; *naked.*

POTERIUM. Masc. *Cal.* tetraphyllus. *Cor.* quadripartita. *Stam.* 30—40.

Fæm. *Cal.* tetraphyllus. *Cor.* quadripartita. *Pist.* 2. *Nux.* bilocularis, corticata.

POTERIUM. Flowers *M. and F. on the same plant.* Cal. 4-*leaved.* Bloss. *with* 4 *divisions.*

F. Berry *formed of the indurated tube of the blossom.*

Fem. Drupa *juiceless*; *beneath*; 1 *or* 2 *celled*; *formed of the indurated tube of the blossom.*

SAGITTARIA. Masc. *Cal.* triphyllus. *Pet.* 3. *Stam.* fere 24.

Fæm. *Cal.* triphyllus. *Pet.* 3, *Pist.* plurima. *Caps.* luprimæ, ventricosæ, monospermæ.

SAGITTARIA. Flowers *M. and F. on the same plant.* Cal. 3 *leaves.* Bloss. 3 *petals.*

Male. Filam. *about* 24.

Fem. Seeds *many, naked.*

CERATOPHYLLUM. Masc. *Cal.* multipartitus. *Cor.* nulla. *Stam.* 16—20.

Fæm. *Cal.* multipartitus. *Cor.* nulla. *Styli* 2 vel 3, trifidi. *Sem.* 2 vel 3, calyce coriaceo, muricato, tecta.

CERATOPHYLLUM. Flowers M. *and* F. *on the same plant.* Bloss. *none.* Cal. *with many divisions.*

FAGUS. Masc. *Cal.* campanulatus, quinquefidus. *Cor.* nulla. *Stam.* 5—12

Fæm. *Cal.* quadrifidus. *Cor.* nulla. *Styli* 2 vel 3, trifidi. *Sem.* 2 vel 3, calyce coriaceo, muricato, tecta.

FAGUS. Flowers *Male and Fem. on the same plant.* Bloss. *none.*

Male. Calyx *5-cleft*; *bell shaped.*

Fem. Calyx 4-*toothed, changing into a capsule*; *prickly*; 4 *valved*, 2-*seeded.*

QUERCUS. Masc. *Cal.* campanulatus, subquinquefidus. *Cor.* nulla. *Stam.* 5—10.

Fæm. *Cal.* campanulatus, integerrimus scaber. *Cor.* nulla. *Stylus* 1. *Stigmata* 3. *Nux* supera, coriacea, monosperma.

QUERCUS. Flowers *Male and Female on the same plant.* Bloss. *none.*

Male. Calyx *mostly 5-cleft.* Stamens 5 *to* 10.

Fem. Cal. 1 *leaf, very entire, rough.* Styles 2 *to* 5. Seed 1, *egg-spaped.*

CORYLUS. Masc. *Cal.* amenti squama trifida. *Cor.* nulla. *Stam.* 8.

Fæm. *Cal.* bifidus, lacer. *Cor.* nulla. *Styli* 2. *Nux.* ovata, lævis, unilocularis, calyce coriaceo tecta.

CORYLUS. Flowers *Male and Female on the same plant.* Bloss. *none.*

Male. Catkin *tiled.* Cal. 1 *leaf*; 3-*cleft*, *resembling a scale*, *inclosing* 1 *flower.*

Fem. Cal. 1 *leaf*; 2-*lipped*; *ragged.* Nut. *egg-shaped.*

CARPINUS. Masc. *Cal.* amenti squama subrotunda. *Cor.* nulla. *Stam.* 8—20.

Fæm. *Cal.* amenti squama oblonga. *Cor.* nulla. *Germina* 2. *Styli* singulis 2. *Nux.* angulosa, unilocularis.

CARPINUS. Flowers *Male and Female on the same plant.* Bloss. *none.* Cal. 1 *scale fringed.*

Male. Stamens 10 *to* 16.

Fem. Germens 2, *with* 2 *styles on each.* Nut *egg-shaped.*

ARUM. *Spatha* monophylla. *Cor.* nulla. *Spadix* androgynus, medio staminiferus, basi germiniferus. *Baccæ* unilocularis.

ARUM. Sheath 1 *leaf*, *cone-shaped.* Sheathed Fruit-st. *naked above*, *bearing* Pistils *below*, *and* Stamens *in the middle.*

MONADELPHIA.

Filamenta inferne in unum coalita.

Piuus. Masc. *Cal.* amenti squama peltata. *Cor.* nulla. *Antheræ* squamis adnatæ, sessilis.

Fæm. *Cal.* amenti squama biflora. *Cor.* nulla. *Pist.* 1. *Nux.* alata.

Pinus. *Bloss.* M. *and* F. *flowers on the same plant.* Bloss. *none.*

M. Cal. 4-*leaved.*

F. *a cone-like* Catkin. Nuts 2; *with a membranaceous wing.*

XXI MONOECIA.

II DIANDRIA.

LEMNA. *Smith.* 956. *With.* 43.

Masc. *Cal.* monophyllus. *Cor.* nulla.

Fæm. *Cal.* monophyllus. *Cor.* nulla. *Stylus* 1. *Caps.* polysperma.

Male. Cal. 1 *leaf.* Bloss. *none.*

Fem. Cal. 1 *leaf.* Bloss. *none.* Style 1. Caps. 1 *or* 2-*celled*; 1 *or* 2-*seeded.*

L. foliis petiolatis lanceolatis proliferis. *trisulca.*

L. *Leaves on leaf-stalks, spear-shaped.*

IVY-LEAVED DUCK-WEED. Ditches and stagnant waters. Southwell Hop-yard; Newark Old Trent Ditches. A. June.

L. foliis sessilibus utrinque planiusculis, radicibus solitariis. *minor.*

L. *Leaves sitting, hemispherical underneath: roots solitary.*

LESSER DUCK-WEED. Ditches and ponds. A. June, July.

L. foliis sessilibus, radicibus confertis. *polyrhirza.*

L. *Leaves sitting: roots crowded.*

GREATER DUCK-WEED. Ditches and slow waters. Ditches in Nottingham Meadow. A. July, Aug.

III TRIANDRIA.

TYPHA. *Smith.* 959. *With.* 111.

Masc. *Amentum* cylindraceum, pilosum. *Antheræ* subternæ, in filamento communi.

Fæm. *Ament.* cylindraceum. *Sem.* unicum, pedicello papposo.

Catkin *cylindrical.* Bloss. *none.*

M. Cal. 3 *bristle-shaped leaves.*

F. *Florets on the same plant below the males.* Cal. *soft hairs.* Seed 1, *standing on a fine bristle.*

latifolia. T. foliis subensiformibus, spica mascula fæmineaque approximatis.

F. *Leaves somewhat sword-shaped: spike with the male and female florets near together.*

GREAT CAT'S TAIL, or REED-MACE. Banks of rivers, fish-ponds, and marshes. Kirklington Lawn; Clipstone Waters; a pond between Little Carlton and the road into the fields near Wernham Woods. P. July.

SPARGANIUM. *Smith.* 961. *With.* 112.

Masc. *Cal.* triphyllus. *Cor.* nulla.

Fæm. *Cal.* triphyllus. *Cor.* nulla. *Drupa* exsucca, monosperma.

Flowers crowded into a globular form: male and female on the same plant.

Male. Cal. 3-*leaved.*

Fem. Cal. 6-*leaved.* Summits 1 *or* 2: Fruit *a juiceless* Drupa, *superiour, of* 1 *cell, and* 1 *or* 2 *seeds.*

S. foliis basi triquetris lateribus concavis, pedunculo communi ramoso, stigmate lineari. *ramosum.*

S. *Leaves triangular at the base, the sides concave: fruit-stalks branched.*

BRANCHED BUR REED. Ditches, marshes, banks of rivers, ponds. Ditches on the Kelham Road beyond Newark Bridge; River Devon, Markham Bridge; Newark. P. July, August.

S. foliis basi triquetris lateribus planis, pedunculo communi simplici, stigmate lineari. *simplex.*

S. *Leaves triangular at the base, the sides flat: fruit-stalks unbranched.*

UNBRANCHED UPRIGHT RUR-REED. Marshy places, sides of pools, and ditches. The left-hand Ditch beyond Newark Bridge on the Kelham Road, with S. Rumosum; Drains of a Close near Ollerton Bridge; Gamston Meadow, near Nottingham; and a Pond near Oxton Wood; Thurgarton Lake P. July, Aug.

CAREX. *Smith.* 963. *With.* 81.

Masc. *Amentum* imbricatum. *Cal.* gluma univalvis. *Cor.* nulla.

Fæm. *Ament.* imbricatum. *Cal.* gluma univalvis. *Cor.* nulla. *Stigmata* 2 vel 3. *Semen.* arillo ventricoso tectum.

Catkins *tiled*. Cal. 1 *leaf*. Bloss. *none*. Female florets *on the same plant with the male*. Capsule *inflated*; *entire or 2-toothed at the end*. Summits 2, *or* 3. Seed 1, *cornered, within the nectary* (*or capsule*.)

* Spica unica, simplici.

1 *Spike single, not branched.*

dioica. C. spica simplici dioica, fructibus ovatis nervosis adscendentibus margine serrulatis.

C. *Spike simple: edges of the capsule finely serrated: male and female florets on different plants.*

COMMON SEPARATE-HEADED CAREX. Turf bogs. Edingley Moor; Oxton Bottoms. P. May, June.

pulicaris. C. spica simplici androgyna: superne mascula, fructibus divaricatis retroflexis utrinque acuminatis, stigmatibus binis.

C. *Spike simple, with M. and F. florets: M. flowers uppermost: capsules diverging, bent back, tapering at each end.*

FLEA CAREX. Turfy and muddy bogs. Edingley Moor. P. June.

* * Spica composita, androgyna.

2 *Spike compound, with both male and female florets.*

stellulata. C. spiculis subternis remotis, fructibus divergentibus acuminatis ore integris.

C. *Spikets generally* 3, *(or* 4*) distant: capsules diverging, entire at the rim, acute.*

LITTLE PRICKLY CAREX. Sides of wet ditches, and marshy places. Oxton Bottoms; Edingley Moor. P. May, June.

C. spiculis subsenis ovalibus approximatis alternis, glumis lanceolatis arillum æquantibus. *ovalis.*

C. *Spikets about* 6, *oval, alternate, near together: scales spear-shaped, acute, as long as the capsule.*

OVAL-SPIKED CAREX. Marshes and watery places; common. P. June.

C. spiculis solitariis remotis subsessilibus, bracteis longissimis culmum superantibus, arillo subintegro. *remota.*

C. *Spikets axillary, solitary, distant, nearly sitting: floral-leaf very long: capsules undivided at the end.*

REMOTE CAREX. Moist woods, and sides of wet ditches. Epperstone Wood. P. May, June.

C. spiculis congestis spicatis: infimis terminalique fœmineis: intermediis masculis, culmo triquetro erecto. *intermedia.*

C. *Spike oblong, blunt: spikets many, the upper and lower ones female, the middle ones male: straw upright.*

SOFT BROWN CAREX. Marshes and boggy meadows. Edingley Moor. P. May, June.

C. spica supradecomposita coarctata obtusa, fructibus divergentibus, glumis acuminatis, culmi angulis compressis acutissimis. *vulpina.*

C. *Spike more than doubly compound, compact, though branched, blunt: spikets male at the top: capsules diverging: straws with very acute angles.*

GREAT-SPIKED CAREX. Marshes and banks of rivers; common. Oxton Bottoms. P. May.

paniculata. C. spica supradecomposita paniculato-ramosa acuta interrupta, fructibus patentibus acuminatis, culmo acute triquetro.

C. *Spike (or branched panicle) more than doubly compound, acute: branches alternate, rather distant: capsules expanding: straw 3-corned.*

GREAT PANICLED CAREX. Bogs and watery places. Banks of the river Greet. P. June.

sylvatica. C. vaginis pedunculo duplo brevioribus, spicis filiformibus laxiusculis nutantibus, fructibus ovatis triquetris rostratis.

C. *Sheaths short: spikes thread-shaped, limber, pendent: capsules egg-shaped, ending in an awn-like beak.*

PENDULOUS WOOD CAREX. Woods; common. Oxton Wood. P. May, June.

pallescens. C. vaginis brevissimis, spicis cylindricis pedunculatis: fructiferis pendulis, fructibus ellipticis inflatis obtusis.

C. *Sheaths extremely short, fem. spikes rather cylindrical, pendent when in fruit: capsules oblong, blunt.*

ALE CAREX. Moist meadows and pastures; common. P. May, June.

C. vaginis abbreviatis pedunculo sub-æqualibus. spicis fæmineis subrotundis, fructibus rostratis arcuato deflexis, culmo læviusculo. *flava.*

C. *Sheaths short, inclosing nearly all the fruit-stalk: the apper leaf like part diverging, M: spike strap shaped: F. spike roundish: capsules beak-pointed.*

YELLOW CAREX. Marshes and wet meadows; common. Edingley Moor. P. May, June.

C. vaginis abbreviatis pedunculo sub æqualibus, spicis ovatis approximatis, glumis mucronulatis, fructibus subrotundis pubescentibus. *præcox.*

C. *Sheaths short, inclosing nearly all the fruit-stalk: spikes near together: male-spike club-shaped: fem. egg-shaped: capsules roundish, pubescent.*

VERNAL CAREX. On wettish heaths, and poor soiled meadows. Edingley Moor. P. April.

C. vaginis nullis, spicis fæmineis sessilibus confertis subrotundis, glumis mucronulatis, fructibus subrotundis villossis. *pilulifera.*

C. *Sheaths none: male-spike slender, females somewhat globular, sitting, crowded: straw feeble.*

ROUND-HEADED CAREX. Moist heaths and pastures; not uncommon. P. April, May.

C. vaginis elongatis pedunculo subdimidio brevioribus, spicis fæmineis laxiusculis remotis, fructibus inflatis, culmo lævi. *panicea.*

C. *Lower sheath inclosing about half the fruit-stalk, upper ones nearly the whole: spikes slender, upright, far asunder: capsules inflated, bluntish, rather distant.*

PINK-LEAVED CAREX. Moist meadows and pastures; frequent. P. May, June.

recurva. C. vaginis abbreviatis, spicis fæmineis cylindricis pendulis, fructibus elliptico-triquetris scabriusculis, radice repente.

C. *Sheaths short: fem. spikes nearly cylindrical, pendent: capsules roundish egg-shaped: roots creeping.*

GLAUCOUS HEATH CAREX. Moist meadows, pastures, heaths, and woods; very common. P. May, June.

cæspitosa. C. digyna, vaginis nullis, spicis sessilibus cylindricis obtusis, bracteis auriculatis, fructibus persistentibus.

C. *Summits* 2: *sheaths none: spikes nearly sitting and cylindrical, blunt: leaves upright, soft.*

TUFTED-BOG CAREX. Marshes and wet woods; very common. P. May.

* * * * Spicis sexu distinctis: masculis pluribus.

4 *Spikes male and female: male spikes* 2 *or more.*

acuta. C. digyna, spicis filiformibus: florentibus cernuis: fructiferis erectis, fructibus ellipticis obtusis apice indivisis.

C. *Summits* 2 : *spikes thread-shaped* ; *fem. spikes nodding whilst in flower, upright when ripe : capsules rather acute, entire at the end.*

SLENDER-SPIKED CAREX. Edges of rivers, ponds and ditches ; and also in meadows. Banks of the river Greet. P. May.

C. spicis cylindricis obtusiusculis erectis, glumis fæmineaium aristatis ; mascularum obtusis, fructibus ellipticis emarginatis. *paludosa.*

C. *Spikes oblong, bluntish : scales of the males blunt, of the female spear-shaped : capsules egg-spear shaped, slightly toothed at the end.*

LESSER COMMON CAREX. Marshes and banks of wet ditches, often found with C. riparia. With. Banks of the Greet. P. May.

C. spicis erectis : masculis triquetris : fæmineis cylindricis, glumis omnibus acuminatis, fructibus rostratis bifurcis. *riparia.*

C. *Spikes oblong, acute : scales of the male spear-shaped of the female tapering to an awn-like point : capsules egg-spear-shaped, cloven into 2 teeth at the end.*

GREAT COMMON CAREX. Edges of rivers, ponds and ditches. Banks of the river Greet. P. April, May.

C. spicis fæmineis cylindricis elongatis subsessilibus, vaginis nullis, fructibus inflatis rostro lineari bifurco. *ampullacia.*

C. *Spikes thread-shaped, the males thinnest, females cylindrical, upright : capsules inflated, globular, awn-beaked, diverging.*

SLENDER-BEAKED BLADDER CAREX. Bogs and marshy watery places; but not very common. Near the Cotton Mill, Southwell. P. May.

hirta. C. pilosa, spicis abbreviatis cylindricis remotis, vaginis pedunculo subæqualibus, glumis aristatis, fructibus hirtis.

C. *Hairy: all the spikes oblong; female spikes far asunder, sheathed: capsules hairy.*

HAIRY CAREX. Meadows and pastures, in wet or marshy places. Southwell. P. May, June.

IV TETRANDRIA

BETULA. *Smith* 1011. *With.* 206.

Masc. *Cal.* amenti squama monophylla, trifida, triflora. *Cor.* quadripartita.

Fem. *Cal.* amenti squama monophylla, subtrifida, biflora *Styli* duo. *Semina* compressa.

Male and female flowers on the same plant. Cal. 1 *leaf, with* 3 *or* 5 *clefts.* Bloss. *with* 4 *divisions.*

Male Cal. 3-*flowered.*

Fem. Cal. 2-*flowered.* Seeds 2 *or* 3.

alba. B. foliis ovatis acutis serratis glabriusculis.

B. *Leaves triangular-spear-shaped, acute, smooth, doubly serrated.*

COMMON BIRCH. Woods and moist hedges. Newark; Southwell; Mansfield. T. April, May.

B. pedunculis ramosis, foliis subrotundo-cuneiformibus repandis serratis glutinosis: axillis venarum subtus villosis. *Alnus.*

B. *Fruit-stalks branched, wedge-shaped, very blunt: leaves roundish, glutinous: veins underneath, woolly at the base.*

COMMON ALDER. NEAR WATER. Coddington; Newark; Southwell. T. March.

BUXUS. *Smith.* 1013. *With.* 210.

Masc. *Cal.* triphyllus. *Pet.* 2. *Germinis* rudimentum.

Fæm. *Cal.* tetraphyllus. *Pet.* 3. *Styli* 3. *Caps.* trirostris, trilocularis. *Sem.* 2.

Male and Female flowers on the same or on a different plant.

Male Calyx 3-*leaved.* Bloss. 2 *petals.* Germen *only a rudiment.*

Female Calyx 4-*leaved.* Bloss 3 *petals.* Caps. 3 *celled,* 3-*beaked.* Seeds 2.

BUXUS.

B. sempervirens. LINN. *With.*

BOX-TREE. Woods and hedges, in a calcareous soil. S. April.

URTICA. *Smith.* 1014. *With.* 201.

Masc. *Cal.* tetraphyllus. *Cor.* nulla. *Germinis* rudimentum cyathiforme.

Fæm. *Cal* diphyllus. *Cor.* nulla. *Semen* 1, superum, nitidum.

Flowers male and female apart. Calyx 4-*leaved.* Bloss *none.*

Male, Nectary *in the centre*; *glass-shaped.*

Fem. Cal. 2, *opposite leafits very small.* Summit *hairy.* Seed 1, *egg-shaped, shining.*

urens. U. folliis oppositis ellipticis subquinquenervibus, racemis subsimplicibus.

U. *Leaves opposite, oval: stem branched.*

SMALL NETTLE. Rubbish, cultivated ground; very common. A. June—October.

dioica. U. foliis oppositis cordatis, racemis ramosissimis geminis subdioicis.

U. *Leaves opposite, heart-shaped: bunches in pairs.*

GREAT NETTLE. Ditch banks, and amongst rubbish; common. P. July, August.

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v PENTANDRIA.

BRYONIA. *Smith.* 1018. *With.* 67.

Mas. *Cal* 5-dentatus. *Cor.* 5-fida. *Filam.* 3. *Anth.* 5.

Fæm. *Cal.* 5-dentatus. *Cor.* 5-fida. *Stylus* 3-fidus. *Bacca* infera, subglobosa, polysperma.

Cal. 5 *toothed.* Bloss. *with* 5 *divisions.*

Male, Anthers *united at the base.*

Fem. Style 3 *cleft.* Berry *roundish, mostly* 1 *seeded.*

dioica. B. foliis palmatis utrinque calloso scabris, floribus dioicis.

B. *Leaves hand-shaped; rough on both sides, with callous points: male and female flowers on different plants.*

RED-BERRIED BRIONY. Hedges and Thickets; common. Newark; Southwell. P. May---Sept.

VI POLYANDRIA.

CERATOPHYLLUM. *Smith.* 1020. *With.* 440.

Masc. *Cal.* multipartitus. *Cor.* nulla. *Stam.* 16—20.

Fem. *Cal.* multipartitus. *Cor.* nulla. *Stigma* subsessile. *Sem.* 1, corticatum.

Male and fem. flowers on the same plant. Cal. *with many divisions.* Bloss. *none.*

Male Stamens *twice as many as the segments of the calyx.*

Fem. Style *none.* Nut *coated, without valves.*

C. fructibus trispinosis. *demersum.*

C. *Leaves forked, toothed; lower ones strap-shaped: upper ones much crowded, tubular and inflated, beaks of the capsule of equal length.*

COMMON HORNWORT. Ditches and slow streams; not very common. Winkburn. P. September.

MYRIOPHYLLUM. *Smith.* 1021. *With.* 389.

Masc. *Cal.* tetraphyllus. *Pet.* 4. *Stam.* 8.

Fæm. *Cal.* tetraphyllus. *Pet.* 4. *Stigmata* 4. sessilia. Sem. 4, corticata.

Male and female flowers frequently on the same plant. Cal. 1 *leaf*, 4 *toothed.* Petals 4, *with claws*; *soon falling off.* Styles *none.* Nuts 2 *or* 4, *covered with a coat.*

spicatum. M. floribus interrupte spicatis aphyllis.

M. *Spikes interrupted, leafless.*

SPIKED WATER-MILLFOIL. Ditches, ponds, lakes and still water. Old Trent Ditches beyond Newark Bridge, on the Kelham road. P. July, Aug.

verticillatum. M. floribus omnibus axillaribus.

M. *Flowers in leafy whirls.*

VERTICILLATE WATER-MILLFOIL. Ditches and stagnant waters. In the Trent below Colwick, on the opposite side of the river. DEERING.
P. July, August.

SAGITTARIA: *Smith.* 1023. *With.*

Masc. *Cal.* triphyllus. *Pet.* 3. *Stamina* fere 24.
Fæm. *Cal.* triphyllus. *Pet.* 3. *Pistilla* plurima. *Caps.* plurimæ, ventricosæ, monospermæ.

Stam. *and* Pist. *in different flowers on the same plant.* Cal. 3 *leaves.* Bloss 3 *petals.*

Male. Filam *about* 24.

Fem. Seeds *many, naked.*

sagittifolia. S. foliis sagittatis acutis.

S. *Leaves arrow-shaped, acute.*

COMMON ARROW-HEAD. Ditches and banks of slow rivers. Left hand ditches beyond Newark bridge, on the Kelham Road; ditches in Nottingham Meadow; dit-

ches in Gamstone Meadows; about Markham Bridge, near the Spring Gardens, Newark. P. July, August.

ARUM. *Smith.* 1023. *With.* 497.

Spatha monophylla, basi convoluta. *Spadix* cylindricus, androgynus, supra nudus, medio staminiferus, basi germiniferus. *Baccæ* uniloculares.

Sheath 1 *leaf, cone-shaped.* Fruit-st. *naked above, bearing germens at its bottom, and stamens in the middle.*

A. acaule, foliis hastatis integerrimis, spadice clavato obtuso. *maculatum.*

A. *Leaves halberd-shaped, very entire: spike-stalk club-shaped.*

CUCKOO POINT. WAKE ROBIN. Shady places ditch banks, and rough grounds, particularly in a clayey soil; frequent. P. May.

POTERIUM. *Smith.* 1025. *With.* 493.

Masc. *Cal.* triphyllus. *Cor.* quadripartita. *Stam.* 30—40.

Fæm. *Cal.* triphyllus. *Cor.* quadripartita. *Pist.* 1, sive 2. *Nux* bilocularis, tubo corollæ indurato corticata.

Stamens and pistils in different flowers, on the same plant. Calyx 4 *leaves.* Bloss. *with* 4 *divisions.*

Male Stam. 30 *to* 40.

Fem. Drupa *juiceless; beneath; 1 or 2 celled; formed of the indurated tube of the blossom.*

P. inerme caulibus subangulosis. *Sanguisorba.*

P. *Thornless: stems somewhat angular.*

COMMON BURNET. In a dry calcareous soil. Thorney Moor Holt, and Greet Meadows, Southwell. P. July.

QUERCUS. *Smith.* 1025. *With.* 387.

Masc. *Cal.* campanulatus, lobatus. *Cor.* nulla. *Stam.* 5—10.

Fæm. *Cal.* campanulatus, integerrimus, scaber *Cor.* nulla. *Stylus* 1. *Stigmata* 3. *Nux* supera, coriacea, monosperma.

Male and female flowers on the same plant. Bloss. *none.*

Male Calyx 5-*cleft*. Stamens *from* 5 *to* 10.

Fem. Cal. 1 *leaf very entire, rough.* Styles *from* 2 *to* 5. Nut *egg-shaped, leather-like, of* 1 *seed, and when ripe, of* 1 *cell.*

Robur. Q. foliis deciduis oblongis superne lateribus sinubus acutioribus: angulis obtusis, pedunculis fructiferis elongatis.

Q. *Leaves on leaf-stalks, oblong, broadest towards the end, indentations rather acute, angles blunt: fruit nearly sitting.*

COMMON BRITISH OAK. Woods and hedges. The GREEN DALE OAK at WELBECK, the seat of the DUKE OF PORTLAND, has long been justly regarded as a natural curiosity. T. April.

FAGUS. *Smith.* 1027. *With.* 443.

Masc. *Cal.* campanulatus, quinquefidus. *Cor.* nulla. *Stam.* 5—12.

Fæm. *Cal.* quadrifidus. *Cor.* nulla. *Styli* 2—3. trifidi. *Sem.* 2 vel 3, calyce coriaceo, muricato, tecta.

Male and female flowers on the same-plant.
Bloss. *none.*

Male Calyx *5 cleft; bell-shaped.*

Fem. Calyx *with 4 teeth, changing into a prickly 4-valved, 2-seeded capsule.*

F. foliis lanceolatis acuminato-serratis subtus nudis, aculeis fructus compositis implexis. *Castanea.*

F. *Leaves spear-shaped, with tapering serratures, naked underneath.*

CHESNUT TREE. Woods and hedges. T. May.

F. foliis ovatis obsolete serratis, aculeis fructus simplicibus. *sylvatica.*

F. *Leaves egg-shaped; indistinctly serrated.*

BEECH TREE. Woods and hedges in a calcareous soil. T. March, April.

CARPINUS. *Smith.* 1029. *With.* 442.

Masc. *Cal.* amenti squama subrotunda. *Cor.* nulla. *Stam.* 8—20.

Fæm. *Cal.* amenti squama oblonga. *Cor.* nulla. *Germina* 2. *Styli* singulis 2. *Nux* angulosa, unilocularis.

Male and female flowers on the same plant.
Bloss. *none.* Cal. 1 *leaf, a fringed scale.*

Male. Stamens 18 *or* 20.

Fem. Germens 2, *with* 2 *styles on each.* Nut. *egg-shaped.*

C. squamis strobilorum planis oblongis dentatis. *Betulus.*

C. *Scales of the cones flat.*

HORN-BEAM. In woods and hedges. T. May.

CORYLUS. *Smith.* 1030. *With.* 378.

Masc. *Cal.* amenti squama trifida. *Cor.* nulla. *Stam.* 8.

Fæm. *Cal.* bifidus, lacer. *Cor.* nulla. *Styli* 2. *Nux.* ovata, lævis, unilocularis, calyce ventricoso, coriaceo, tecta.

Male and female flowers on the same plant. Bloss. *none.*

Male, Cal. 1 *leaf,* 3 *cleft, resembling a scale, containing* 1 *flower.*

Fem. Cal. 2-*leaved, ragged.* Nut *egg-shaped.*

Avellana. C. stipulis ovatis obtusis, foliis subrotundis cordatis acuminatis, ramulis pilosis.

C. *Stipulæ spear-shaped: twigs hairy.*

HAZEL-NUT TREE. Woods and hedges; common. T. March, April.

VII MONADELPHIA.

PINUS. *Smith.* 1031. *With.* 615.

Masc. *Cal.* amenti squama peltata. *Cor.* nulla. *Antheræ* squamis adnatæ, sessiles.

Fæm. *Cal.* amenti squama biflora. *Cor.* nulla. *Nux* unilocularis, alata.

Male and fem. flowers on the same plant. Bloss. *none.*

Male Calyx *scales forming a bud standing open.* Anthers *naked.*

Fem. Calyx *scales forming a cone, 2 flowers in each scale.* Pistil 1. Nut *of 1 cell, without valves, bordered with a membrane.*

P. foliis geminis rigidis, strobilis junioribus pedunculatis recurvis, antherarum crista exigua. *sylvestris.*

P. *Leaves in pairs, rigid: cones egg-conical, mostly in pairs, as long as the leaves: scales oblong, blunt.*

SCOTCH FIR. Woods, coppices, plantations.
T. May.

Classis XXII.

DIOECIA.

Flores masculi et fæminei in diversis plantis.

MONANDRIA.

Stamen 1.

Salix purparea et Hei.

DIANDRIA.

Stamina 2.

SALIX. Masc. *Cal.* amenti squama. *Cor.* nulla: *Glandula* baseos nectarifera. *Stam.* 1—5.

Fæm. *Cal.* amenti squama *Cor.* nulla. *Stigmata* 2. *Caps.* supera, unilocularis, bivalvis. *Sem.* papposa.

M. Cal. *scale of a catkin.* Bloss. *none.*

F. Summits 2. Caps. 2-*valved.* Seeds *downy.*

TRIANDRIA.

Stamina 3.

EMPETRUM. Masc. *Cal.* tripartitus. *Pet.* 3. *Stam.* capillaria, 3—9.

Fæm. *Cal.* tripartitus. *Pet.* 3. *Stigmata* 9. *Bacca* supera, enneasperma,

EMPETRUM. *Male and female flowers on distinct plants.* Cal. *with* 3 *divisions* Bloss. 3 *petals.*

M. *Stamens long.*

F. Berry *with* 9 *seeds.*

RUSCUS. Masc. *Cal.* hexaphyllus. *Cor.* nulla. *Nectarium* ovatum, tubulosum, infus stameniferum.

Fæm. *Cal. Cor.* et Nect. maris. *Stam.* nulla. *Stylus* 1. *Bacca* supera, trilocularis. *Sem.* gemina.

RUSCUS. Stam. *and* pistil *in separate flowers.* Bloss. *none.* Nectary *central, egg-shaped, open at the top.*

TETRANDRIA.

Stamina 4.

MYRICA. Mas. *Cal.* amenti squama concava. *Cor.* nulla.

Fæm. *Cal.* amenti squama concava. *Cor.* nulla. *Styli* 2. *Bacca* monosperma.

MYRICA. *Flowers male and female on the same or on distinct plants.* Catkins *scales crescent-shaped.* Bloss. *none.*

F. Berry *with* 1 *seed.*

VISCUM. Masc. *Cal.* nullus. *Pet.* 4. basi dilatata, connata, calycina. *Antheræ* sessiles, petalis adnatæ.

Fæm. *Cal.* submarginatus. *Pet.* 4, basi dilatata. *Stylus* nullus. *Bacca* infera monosperma.

VISCUM. Flowers *Male and female on distinct plants.*

M. Cal. *with 4 divisions.* Anthers *fixed to the calyx without any intervening filaments.*

PENTANDRIA.

Stamina 5.

HUMULUS. Masc. *Cal.* pentaphyllus. *Cor.* nulla. *Anth.* apice biporosæ.

Fæm. *Cal.* amenti squama obliqua, integra. *Cor.* nulla. *Styli* 2. *Semen* 1. tunicatum, calyce alatum.

HUMULUS. Seed 1, *within a leafy calyx.* Flowers *male and female on different plants.*

M. Cal. *5-leaved.*

F. Cal. 1 *leaf, entire; with an oblique opening.*

HEXANDRIA.

Stamina 6.

TAMUS. Masc. *Cal.* sexpartitus. *Cor.* nulla.

Fæm. *Cal.* sexpartitus. *Cor.* nulla. *Stylus* trifidus. *Bacca* infara, trilocularis. *Sem.* bina.

TAMUS. Flowers *male and female on distinct plants.* Calyx *with 6 divisions.*

F. Style *3-cleft.* Berry *3-celled; beneath.* Seeds 2.

OCTANDRIA.

Stamina 8.

POPULUS. Masc. *Cal.* amenti squama lacera. *Cor.* turbinata, obliqua, integra.

Fæm. *Cal.* amenti squama lacera. *Cor.* turbinata, integra. *Stigmata* 4. *Caps.* supera, bilocularis, bivalvis. *Sem.* papposa.

POPULUS. *Flowers in Catkins*; *M. and F. on distinct plants.* Cal. *a ragged scale of the catkin.* Bloss. *turban-shaped*; *oblique*; *entire.*

Fem. Summit 4-*cleft*, Caps 2-*celled*. Seeds *many*, *downy*.

ENNEANDRIA.

Stamina 9.

MERCURIALIS. Masc. *Cal.* taipartitus. *Cor.* nulla. *Stam.* 9—12. *Anth.* globosæ, didymæ.

Fæm. *Cal.* tripartitus. *Cor.* nulla. *Styli* 2. *Caps.* dicocca, bilocularis. *Sem.* solitaria.

MERCURIALIS. *Flowers male and female on distinct plants.* Cal. *with* 3 *divisions.* Bloss. *none.*

M. Stam. 9 *to* 12. Anthers *globular*; *double.*

F. Caps. 2 *united*; *each with* 1 *cell and* 1 *seed.*

HYDROCHARIS. Masc. *Cal.* trifidus. *Pet.* 3. *Filamenta* tria interiora appendiculata.

Fæm. *Cal.* trifidus. *Pet.* 3. *Styli* 6. *Caps.* sexlocularis, polysperma, infera.

HYDROCHARIS. *Flowers male and female on distinct plants.* Cal. 3-*cleft.* Bloss. 3 *petals.*

M. Sheath 2-*leaved.* Filaments, *the inner ones bearing a kind of style.*

F. Caps. 6-*celled*; *many-seeded*; *beneath.*

MONADELPHIA.

Filamenta inferne in unum corpus coalita.

JUNIPERUS. Masc. *Cal.* amenti squamæ. *Cor.* nulla. *Stam.* 3.

Fæm. *Cal.* amenti sqamæ pauciores, demum carnosæ, coalitæ in *baccam.* trispermam.

JUNIPERUS. M. and Fem. *flowers on different plants.*

M. Cal. *a catkin.* Bloss. *none.*

F. Col. *with* 3 *divisions.* Bloss. 3 *petals.* Styles 3. Berry *beneath*: 3-*seeded*: *the cup at the base.*

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22 DIOECIA.

1 DIANDRIA.

SALIX. *Smith.* 1039. *With.* 45.

Masc. *Cal.* amenti squama. *Cor.* nulla. *Glandula* baseos nectarifera. *Stam.* 1—5.

Fæm. *Cal.* amenti squama. *Cor.* nulla. *Stigmata* duo. *Caps.* supera, unilocularis, bivalvis. *Sem.* pàpposa.

Catkin *each scale containing* 1 *flower.* Bloss. *none.*

Male. *A nectariferous gland at the bottom of the flower.*

Female. Style *cloven.* Caps. 1-*cell*: 2 *valves.* Seeds *downy.*

* Foliis serratis glabriusculis.

1. *Leaves smooth serrated.*

S. Monandra erecta, foliis lanceolatis acuminatis serrulatis glabris, stylo elongato filiformi, stigmatibus linearibus. *Helix.*

S. *Leaves strap-spear-shaped: upper leaves oblique; catkins downy; flowers with* 1 *stamen.*

Salix monandra. *With.* 45.

ROSE WILLOW. Hedges, watery places, and sides of rivers, osier beds. Parks at Southwell S. March, April.

S. triandra, foliis lineari-oblongis serratis glabris, germinibus pedicellatis. *triandra.*

S. *Leaves oblong-spear-shaped: flowers with* 3 *stamens.* LINN. *sometimes* 2. HUDS.

LONG-LEAVED TRIANDROUS WILLOW. Woods, hedges, and banks of rivers Southwell Water Mill. S. or T. March—August.

fragilis. S. foliis lanceolatis acuminatis undique serratis glaberrimis, petiolis dentato-glandulosis, nectario masculinorum gemino.

S *Leaves egg-spear-shaped: leaf-stalks toothed with glands.*

CRACK-WILLOW. Woods, hedges, and banks of rivers. T. April, May.

* * Foliis villosis.

2 *Leaves very entire, woolly.*

arenaria. S. foliis subintegerrimis ovatis acutis: supra subvillosis; subtus densissime lanatis.

S. *Leaves hairy, spear-shaped.*

Salix lapponum. *With* 51.

DOWNY MOUNTAIN WILLOW. Basford, near Nottingham. S. June.

aquatica. S. foliis subserratis obovato-ellipticis pubescentibus planis: subtus glaucescentibus, stipulis rotundatis dentatis.

S. *Leaves oblong-egg-shaped, somewhat woolly underneath: stipulæ half-heart-shaped.*

Salix cinerea. *With.* 54.

COMMON WILLOW. WATER SALLOW. Hedge rows, banks of rivers, ditches, and in woods; very common. Newark; Southwell. S. April.

caprea. S. foliis ovatis acuminatis serratis undulatis: subtus tomentosis, stipulis sublunatis, capsulis ventricosis.

S. *Leaves egg-shaped, wrinkled, cottony underneath, waved, toothed towards the end.*

GREAT ROUND-LEAVED SALLOW. Woods and hedges; common. S. April.

S. foliis lanceolato-oblongis acuminatis undulatis denticulatis : subtus tomentosis, stipulis reniformibus, capsulis ovato-subulatis. *acuminata.*

S. *Leaves egg-oblong, cottony underneath; upper ones entire, lower ones scolloped.*

LONG-LEAVED SALLOW. Thickets and wet places. S. April.

S. foliis lanceolato-linearibus longissimis acuminatis integerrimis subtus sericeis, ramis virgatis, stylo elongato. *viminalis.*

S. *Leaves spear-strap-shaped, very long, acute, silky underneath: branches rod-like.*

COMMON OSIER. Willow beds, woods and hedges; common. Newark; Southwell. S. April, May.

S. foliis lanceolatis acuminatis serratis utrinque sericeis; serraturis infimis glandulosis, stigmatibus bitartitis. *alba.*

S. *Leaves spear-shaped, tapering to a point, serrated, downy on both sides: the lowermost serratures glandular.*

COMMON WHITE WILLOW. Woods, hedge-rows, wet meadows and pasture land; common.

II TRIANDRIA.

EMPETRUM. *Smith.* 1072. *With.* 176.

Masc. *Cal.* tripartitus. *Pet.* 3. *Stam.* capillaria, 3—9.

Fæm. *Cal.* tripartitus. *Pet.* 3. *Stigmata* 9. *Bacca* supera, enneasperma.

M *and* F. *flowers on separate plants.* Calyx *with* 3 *divisions.* Bloss. 3 *petals.*

Male. Stam. *long.* *Fem.* Berry *with* 9 *seeds.*

nigrum. E. caulibus procumbentibus.

E. *Stems trailing.*

BLACK CROW, or CRAKE-BERRY. Heaths, both in the driest and most barren rocky soils; not very common. Sherwood Forest, near Mansfield.
S. May.

III TETRANDRIA.

VISCUM. *Smith.* 1074 *With.* 203.

Masc. *Cal.* nullus. *Pet.* 4. basi dilatata, connata, calycina. *Antheræ* sessiles, petalis adnatæ.

Fæm. *Cal* submarginatus. *Pet.* 4, basi dilatata. *Stylus* nullus. *Bacca* infera, monosperma.

Male and female flowers on different plants. Bloss. *none*

Male Calyx *with* 4 *divisions.* Filam. *none.* Anthers *fixed to the calyx.*

Fem. Calyx 4 *leaves. superiour.* Style *none.* Berry *pulpy*; 1-*celled*; 1-*seeded.* Seed *heart-shaped.*

album. V. foliis lanceolatis obtusis, caule dichotomo, capitulis axillaribus.

V. *Leaves spear-shaped, blunt: stem forked: spikes axillary.*

MISSELTOE. Mostly on appletrees; also on the pear, hawthorn, oak, hazel. Orchards at Halam, near Southwell. S. May.

MYRICA. *Smith.* 1076. *With.* 208.

Masc. *Cal.* amenti squama concava. *Cor.* nulla.

Fæm. *Cal.* amenti squama concava. *Cor.* nulla. *Styli* 2. *Bacca* monosperma.

Flowers in catkins, on different plants. Cal. 2 *leaves.* Bloss. *none.*

Fem. Drupa 1-*celled, superiour.* Seed 1.

M. foliis lanceolatis subserratis, caule fruc- *Gale.*
ticoso.

M. *Leaves spear-shaped; somewhat serrated; stem shrub-like.*

SWEET GALE. DUTCH MYRTLE. On bogs, in gravelly soils. Sutton Wood, near Retford. Dr. MASON.

IV PENTANDRIA.

HUMULUS. *Smith.* 1077. *With.* 277.

Masc. *Cal.* pentaphyllus. *Cor.* nulla. *Anth.* apice biporosæ.

Fæm. *Cal.* amenti squama obliqua, integra. *Cor.* nulla. *Styli* 2. *Semen* unicum, tunicatum.

Male and female flowers on different plants. Bloss. *none.*

Male. Calyx 5-*leaved.*

Female. Calyx 1-*leaved, with a slanting opening, entire.* Seed 1, *within a leaf-like calyx.*

Lupulus. HUMULUS.

HOP. In hedges. Cultivated in the North Clays; Southwell; Ollerton; and other parts of the County. P. July.

---

v HEXANDRIA.

TAMUS. *Smith.* 1078. *With.* 344.

Masc. *Cal.* sexpartitus. *Cor.* nulla.

Fæm. *Cal.* sexpartitus. *Cor.* nulla. *Stylus* trifidus. *Bacca* infera, trilocularis. *Sem.* bina.

Flowers male and female on different plants. Calyx *with* 6 *divisions.* Bloss. *none.*

Fem. Style 3-*cleft.* Berry 3-*celled*; *beneath.* Seeds 2.

communis. T. foliis cordatis indivisis.

T. *Leaves heart-shaped*: *undivided.*

BLACK BRYONY. Thickets and hedges; common. P. June.

vi OCTANDRIA.

POPULUS. *Smith.* 1079. *With.* 375.

Masc. *Cal.* amenti squama lacera. *Cor.* turbinata, obliqua, integra.

Fæm. *Cal.* amenti squama lacera. *Cor.* tubinata, integra. *Stigmata* 4. *Caps.* supera, bilocularis, bivalvis. *Sem.* papposa.

Flowers male and female in catkins on distinct plants. Calyx *scales ragged.* Bloss. *turban-shaped, mouth entire, slanting.* Female Summit 4-*cleft.* Caps. 2-*celled.* Seeds *many, downy.*

P. foliis cordato-subrotundis lobatis dentatis subtus tomentoso-niveis, amentis ovatis. *alba.*

P. *Leaves nearly triangular, toothed and angular; cottony underneath.*

GREAT WHITE POPLAR. ABELE-TREE. Hedges, woods, and near brooks. T. March.

P. foliis suborbiculatis dentatis utrinque glabris, petiolis compressis, ramulis hirtis. *tremula.*

P. *Leaves circular, toothed and angular, smooth on both sides.*

ASP. ASPEN. TREMBLING POPLAR. Moist woods, and in boggy ground. T. March, April.

P foliis deltoidibus acuminatis serratis utrinque glabris. *nigra.*

P. *Leaves trowel-shaped, tapering to a point, serrated, smooth on both sides.*

BLACK POPLAR. Near rivers and wet shady places. T. March.

VII ENNEANDRIA.

MERCULIARIS. *Smith.* 1083. *With.* 392.

Masc. *Cal.* tripartitus. *Cor.* nulla. *Stam.* 9—12. *Antheræ* globosæ, didymæ.

Fæm. *Cal.* tripartitus. *Cor.* nulla. *Styli* 2. *Caps.* dicocca, bilocularis. *Sem.* solitaria.

Male and female flowers on different plants. Bloss. *none.* Calyx *with* 3 *divisions.*

Male Stamens *from* 9 *to* 12. Anthers *globular, double.*

Fem. Caps. *double, 2-celled; 1 seed in each.*

perennis. M. caule simplicissimo, foliis scabris, radice repente.

M. *Stem undivided: leaves rough.*

PERENNIAL MERCURY. Woods, hedge banks. Top of a close in Beacon Field, near Mr. Millington's brick yard; thickets near Oxton Tollbar; Eppersone Woods. P. April, May.

annua. M. caule brachiato, foliis glabris, floribus racemosis, radice fibrosa.

M. *Stem branching: leaves smooth: flowers in spikes.*

ANNUAL MERCURY. Waste places and dunghills, about towns and villages; not common. In gardens; Newark, Southwell. A. July, Sept.

HYDROCHARIS. *Smith.* 1084. *With.* 393.

Masc. *Cal.* trifidus. *Pet.* 3. *Filamenta* tria interiora appendiculata.

Fæm. *Cal.* trifidus. *Pet.* 3. *Styli* 6. *Caps.* sexlocularis, polysperma, infera.

Male and female flowers on different plants. Cal. 3-*cleft.* Bloss. 3 *petals.*

Male. Sheath 2-*leaved.* Filaments, *the* 3 *inner ones style-bearing.*

Fem. Caps. 6-*celled*; *many-seeded*; *beneath.*

HYDROCHARIS. *Morsus-rana.*

COMMON FROGBIT. Slow streams and wet ditches. Ditches on the road to Kelham, beyond Newark Bridge, particularly about Fidler's Bridge, the foot-road to Kelham. P. July.

VIII MONADELPHIA.

JUNIPERUS. *Smith.* 1085. *With.* 599.

Masc. *Cal.* amenti squamæ. *Cor.* nulla. *Stam.* 3.

Fæm. *Cal.* amenti squamæ pauciores, demum carnosæ, coalitæ in *baccam* trispermam.

Male and female flowers distinct.

Male. Cal. *a scale of the catkin.* Bloss. *none.*

Fem. Cal. *with* 3 *divisions.* Petals 3. Pistils 3. Drupa *juicy*, *closed*, 1-*celled*, *many-seeded*; *with* 3 *tubercles formerly the calyx.*

J. foliis ternis patentibus mucronato-spinosis bacca longioribus. *communis.*

J. *Leaves* 3 *together*, *expanding*; *sharp-pointed*; *longer than the berry.*

COMMON JUNIPER. Heaths and commons; but not frequent. S. May.

TAXUS. *Smith.* 1086. *With.* 614.

Masc. *Cal.* nullus. *Cor.* nulla. *Stam.* plurima. *Anth.* peltatæ, octofidæ.

Fæm. *Cal.* urceolatus, integerrimus. *Stylus* nullus. *Sem.* 1, calyci baccato impositum.

Male and female flowers on different plants. Bloss. *none.* Calyx *a* 4 *or* 7-*leaved bud.*

Male. Anthers *target-shaped,* 8-*cleft.*

Fæm. Style *none.* Seed 1, *surrounded at the base by a pulpy receptacle; the upper half naked.*

baccata. T. foliis approximatis.

T. *Leaves solitary strap-shaped, prickle pointed near together; receptacle of the male flowers somewhat globular.*

YEW-TREE. Woods and hedges. T. March, April.

Classis XXIII.

POLYGAMIA.

Flores hermaphroditici et masculi aut fœminei, structura partium inter se diversi, in eadem specie.

MONOECIA.

Fl. hermaphr. et masc. aut fœm. in eadem planta.

ATRIPLEX. Hermaphr. *Cal.* quinquepartitus, inferus. *Cor.* nulla. *Stam.* 5. *Stylus* bipartitus. *Sem.* 1, depressum.

Fœm. *Cal.* diphyllus. *Cor.* nulla. *Stylus* bipartitus. *Sem.* 1, compressum.

ATRIPLEX. Seed 1; *compressed.* Female *flowers on the same plant.*

H. Cal. 5 *leaves.*

F. Cal. 2 *leaves.*

MONOECIA.

ATRIPLEX. *Smith.* 1090. *With.* 274.

Hermaphr. *Cal.* quinquepartitus, inferus. *Cor.* nulla. *Stam.* 5. *Stylus* bipartitus. *Sem.* 1, depressum.

Fæm. *Cal.* diphyllus. *Cor.* nulla. *Stylus* bipartitus. *Sem.* 1, compressum.

Bloss. *none.* Flowers *some hermaphrodite: others fem. on the same plant.*

Herm. Calyx *5-leaved.* Seed 1, *depressed, upright,*

Fem. Calyx *2-leaved.* Seed 1, *compressed.*

patula. A caule herbaceo patulo, foliis deltoideo-lanceolatis subhastatis, calycibus seminum disco submuricatis.

A. *Stem herbaceous: calyx valves of the female flowers large, trowel-shaped, indented.*

A. hastata. *With.* 274.

SPREADING HALBERD-LEAVED ORACH. On rubbish, dunghills, and in kitchen gardens; very common Newark; Southwell. A. June---August.

angustifolia. A. caule herbaceo divaricato, foliis lanceolatis integerrimis, infimis subhastatis, calycibus seminum hastatis læviusculis.

A. *Stem herbaceous, spreading: leaves somewhat trowel-spear-shaped: calyx of the fruit toothed on the disc.*

A. patula. *With.* 275.

SPREADING NARROW-LEAVED ORACH. On rubbish, and ditch banks. Newark; Southwell; Mansfield. A. June---August.

Classis XXIV.

CRYPOGAMIA.

Fructificatio anomala vel obscura.

FILICES.

Herba frondosa. Fructificatio vel dorsalis, vel terminalis, vel subradicalis.

Annulatæ; capsulis annulo elastico, valvulis contrario, cinctis.

Capsules *roundish, on pedicles encompassed by a jointed elastic ring; and opening irregularly into 2 parts.*

POLYPODIUM. *Fructificationes* in punctis subrotundis sparsis. *Involucrum* nullum.

POLYPODIUM. *Capsules disposed in distinct circular dots, on the under surface of the leaf.*

ASPIDIUM. *Fructif.* in punctis subrotundis, sparsis. *Involucrum* umbilicatum.

ASPIDIUM. Fructifications *scattered in roundish dots.* Involucrum *umbilicated.*

ASPLENIUM. *Fructif.* in lineolis sparsis. *Involucrum* costam versus dehiscens.

ASPLENIUM. Capsules *disposed in straight and nearly parallel lines on the under surface of the leaf.*

SCOLOPENDRIUM. *Frutif.* in lineolis giminis, intervenis. *Involucra* sibi invicem incumbentia.

SCOLOPENDRIUM. Fructif. *in scattered double lines between veins.* Invol. *folding lengthways over one another.*

BLECHNUM. *Fructif.* in lineis continuis, costæ adjacentibus. *Invol.* costam versus dehiscens.

BLECHNUM. Capsules *forming 2 parallel lines near the rib of the leaf.*

PTERIS. *Fructif.* in linea marginalina. *Invol.* e margine frondis inflexo, continuo.

PTERIS. Capsules *disposed in a line under the reflected edge of the leaf.*

ADIANTUM. *Fruct.* in punctis marginalibus. *Involucra.* e margine frondis inflexo, interrupto.

ADIANTUM. Capsules *forming oval spots under the reflected points of the leaves.*

CYATHEA. *Fructif.* sparsæa, subrotundæ, calyci apice dehiscenti insidentes.

CYATHEA. Fructifications *scattered, roundish, growing out of an hemispherical calyx.*

* * Exannulatæ.

2 *Capsules without an elastic ring; in spikes.*

EQUISETUM. *Frons.* amentacea. *Semina* filamentis 4, poliniferis circumplicata.

EQUISETUM. Fructifications *forming an egg-oblong, terminating spike.*

OPHIOGLOSSUM. *Spica* disticha. *Capsulæ* immersæ.

OPHIOGLOSSUM. Capsules *united by an inveloping membrane, so as to form a 2-rowed, jointed spike.*

OSMUNDA. *Spica* ramosa. *Caps.* nudæ, globosæ.

OSMUNDA. Capsules *distinct, 2-valved, forming a bunch-like spike.*

LYCOPODIUM. *Capsulæ* axillares, solitariæ, compressæ.

LYCOPODIUM. Capsules *axillary, solitary, naked, kidney-shaped, with 1 cell, and 2 elastic valves.*

FILICES.

EQUISETUM. *Smith.* 1102. *With.* 753.

Amentum squamis peltatis, intus floriferis. *Involucella* bivalvia. *Sem.* numerosa, nuda, filamentis quatuor polliniferis circumplicata.

Spike *club-shaped, egg-oblong.* Fructifications *target-shaped, opening inwards.*

E. ramis compositis arcuato-deflexis scabris. *sylvaticum.*

E. *Stem bearing a spike: leaves compound.*

BRANCHED-WOOD-HORSE-TAIL. Moist woods and shady places, near rivulets, and in boggy ground. Newark; Southwell. P. April, May.

arvense. E. caulibus sterilibus undique ramosis: ramis scabriusculis: fructificantibus simplicibus, vaginis distantibus late incisis.

E. *Fertile stalk leafless: barren stem leafy, lying down: leaves in whirls.*

CORN HORSE-TAIL. Moist cornfields. Newark; Southwell. P. March, April.

palustre. E. caulibus fructificantibus angulatis ramosis: ramis simplicibus erectis scabriusculis.

E. *Stem angular: leaves unbranched.*

MARSH HORSE-TAIL. Marshy and watery places. Newark; Southwell; Nottingham. P. June, July.

fluviatile. E. caulibus sterilibus ramosis: ramis scabriusculis numerosissimis; fructificantibus simplicibus, vaginis approximatis setaceo-multifidis.

E. *Stem scored: leaves generally unbranched.*

GREAT WATER HORSE-TAIT. Marshy and watery places, sides of rivers, ditches, pools, and lakes. P. May, June.

limosum. E. caule nudiusculo ramisque lævibus, amento terminali.

E. *Stem frequently naked, smooth.*

SMOOTH NAKED HORSE-TAIL. In beds of rivers, near the banks; common. P. May.

hyemale. E. caule nudo scaberrimo basi subramaso, vaginis albidis basi apice que nigris, amento terminali.

E *Stem naked, rough, somewhat branched at the base.*

ROUGH HORSE-TAIL. SHAVE-GRASS. Marshy and watery places; rare. Nettleworth Green, near Mansfield, plentifully. DEERING. P. July.

OPHIOGLOSSUM. *Smith.* 1106. *With.* 761.

Spica disticha. *Capsulæ* bivalves, immersæ, transverse dehiscentes.

Capsules *numerous, nearly globular; without an elastic ring; united by a membrane into a spike; opening cross-ways when ripe.* Seeds *numerous, minute.*

O. fronde ovata avenia. *vulgatum.*

O. *Leaf egg-shaped, veinless, bearing the spike.*

COMMON ADDER'S TONGUE. Moist cold meadows and pastures. Newark and Averham Meadows; Southwell Meadows; Foot-stile Closes leading to Oxton, below the hill. Mrs. PIGOT. P. May.

OSMUNDA. *Smith.* 1107. *With.* 762.

Spica ramosa. *Capsulæ* bivalves, nudæ, globosæ.

Spike *branched.* Capsules *distinct, sitting, globular, 2-valved: without an elastic ring; opening either vertically or horizontally.*

O. fronde pinnata basi spicifera: pinnulis lunulatis crenatis. *Lunaria.*

O. *Stalk solitary: bunch lateral: leaf winged, solitary.*

COMMON MOONWORT. Mountainous meadows and pastures, sometimes in shady woods; but not common. On the Forest near the gateway into Edwinstow, from Retford; a grazing meadow of Mr. Esam's, at Sutton-upon-Trent, between Grassthorpe and Marnham. P. June.

regalis. O. fronde bipinnata apice spicifera : pinnulis cordato-lanceolatis glabris.

O. *Leaf doubly winged : bunches terminating, more than doubly compound.*

ROYAL MOONWORT. OSMUND ROYAL. Watery places and boggy marshes ; rare. Right hand bank on Stapleford Moor, near the lane leading from the Sleaford Turnpike ; 2 plants in the hollows near Potter's Hill, on the Lincoln road from Newark; and in the Carr Closes of Mr. JACOB ORDOYNO, at Coddington. P. June, July.

LYCOPODIUM. *Smith.* 1109. *With* 756.

Capsulæ axillares, solitariæ, bivalves, nudæ, subreniformes, compressæ.

Capsules *axillary, kidney-shaped, 2-valved, elastic ; many-seeded.*

clavatum. L. foliis sparsis filamentosis ; floralibus dilatato-membranaceis, ramis floriferis inferne strigosis : apice bifidis trifidisve.

L. *Leaves scattered, terminating in threads : spikes cylindrical, on fruit-stalks, in pairs.*

COMMON CLUB MOSS. Dry places on mountains, heaths, and woods. Mansfield Forest. P. July.

POLYPODIUM. *Smith.* 1113. *With.* 773.

Fructificationes in punctis subrotundis sparsis, non marginalibus. *Involucrum* nullum.

Capsules *disposed in distinct circular dots on the under surface of the leaf.*

* Fronde pinnatifida.

1. *Leaves wing-cleft.*

vulgare. P. fronde pinnatifida : lobis oblongis subserratis obtusis, radice squamata.

P. *Lobes oblong, somewhat serrated, blunt: root scaly.*

COMMON POLYPODY. On old walls, shady places, and at the roots of trees; not uncommon. Walls of the Palace, at Southwell. P. May, Oct.

* * Fronde supradecomposita.

2. *Leaf triply winged.*

P. fronde ternata bipinnata patulo-deflexa; laciniis obtusis subcrenatis, radice filiformi. *Dryopteris.*

P. *Stem supporting 3-winged or doubly winged leaves.*

TENDER THREE-BRANCHED POLYPODY. Dry stony places; rare. Near Pleasly Forge. DEERING. P. July.

ASPIDIUM. *Smith.* 1118.

Fructificationes in punctis subrotundis, sparsis, non marginalibus. *Involucrum* umbilicatum, undique fere dehiscens.

Aspidium. Fructifications *scattered in roundish dots not marginal.* Involucrum *umbilicated, bursting almost all round.*

Fronde subbipinnata.

Leaves winged; wings deeply wing-cleft.

A. fronde bipinnata: pinnulis obtusis serratis, stipite paleaceo, involucris circinatis. *Filix-mas*

Polypodium Filix Mas. *With.* 775.

P. *Leaves almost doubly winged: leaflets strap-spear-shaped: lobes blunt, finely serrated, stem and mid-ribs chaffy.*

MALE FERN. MALE SHIELD FERN. Woods, heaths, stony places; common. Edingley Hill. P. June, July.

Filix fœmina. A. fronde bipinnata: pinnulis pinnatifidis serratis muticis, rachi lævi, involucris reniformibus.

A. *Leafits strap-spear-shaped, wing-cleft, acute: stems smooth upwards.*

Polypodium Filix Fœmina. *With.* 778.

FEMALE SHIELD-FERN. Moist and shady marshy places, moist rocky woods; Codddington Moor; Combes Wood. P. June, July.

dilatatum. A fronde bipinnata: pinnulis pinnatifidis inciso-serratis spinulosis, rachi squamosa: involucro circinato.

A. *Leafits deeply wing-cleft; segment oblong, blunt, serrated, fringed: clusters of capsules in a double row.*

Polypodium cristatum. *With.* 778.

GREAT CRESTED SHIELD FERN. Moist woods and shady places, in a gravelly soil, and chinks of moist rocks and old walls: roots of decaying trees. St. Anne's Well. DEERING. P. June, July.

ASPLENIUM. *Smith.* 1126. *With.* 766.

Fructif. in lineolis sparsis. *Involucr.* e vena lateraliter ortum ducens, interius (sive costam versus) dehiscens.

Capsules, *disposed in straight and nearly parallel lines on the under surface of the leaf*

Trichomanes. A. fronde pinnata: pinnis ovato-subrotundis crenatis, rachi nitida subtus carinata.

A. *Leafits nearly circular, scolloped.*

COMMON MAIDEN-HAIR. SPLEEN-WORT. Old walls, rocks, and shady stony places. Basford Church; Wollaton Park Walls. P. May--October.

A. fronde alternatim decomposita: pinnis rhomboideo cuneiformibus patentibus apice erosis. *Ruta, muraria.*

A. *Leafits wedge-shaped, finely scolloped.*

WALL-RUE. SPLEEN-WORT. WHITE MAIDEN-HAIR. Old walls, and moist crevices of rocks. Walls of Gedling Church. P. June--Oct.

A. fronde subdeltoidea alternatim tripinnata: pinnulis lanceolatis acutiusculis inciso-serratis. *Adiantum-nigrum.*

A. *Leaves almost triply-winged: wings alternate: leafits spear-shaped, cut-serrated.*

BLACK MAIDEN-HAIR. SPLEEN-WORT. Shady places and old walls Rock holes in Nottingham Park. P. June---October.

SCOLOPENDRIUM. *Smith.* 1113. *With.*

Fructif. in lineolis sparsis, geminis interveniis. *Involuc.* superficiaria, sibi invicem longitudinaliter incumbentia, satura longitudinali dehiscentia..

Fructif. *in scattered double lines, between veins.* Invol. *superficial, folding lengthways over one another, separating by a longitudinal suture.*

S. fronde simplici cordato lingulata subtus lævi. *vulgare.*

S. *Leaves heart-tongue-shaped; very entire: stalks hairy.*

Asplenium scolopendrium. *With.* 766.

COMMON HART'S TONGUE. Moist shady rocks, mouths of wells, old walls, and in the fissures of rocks. Oxton Bottoms. P. July.

BLECHNUM. *Smith.* 1135. *With.* 765.

Fructif. in lineis longitudinalibus, continuis, costæ adjacentibus. *Involucr.* superficiarium, continuum, costam versus dehiscens.

Capsules *forming 2 parallel lines near the rib of the leaf.*

boreale. B. fronde pinnata glabra: pinnis linearibus obtusiusculis integerrimis basi subæqualibus.

B. *Barren leaves wing-cleft: fruitful leaves winged, narrower; sgements very entire.*

B. Spicant. *With.* 765.

NORTHERN BLECHNUM. ROUGH SPLEENWORT. Groves and moist heaths. Stapleford and Langford Moors. P. July.

PTERIS. *Smith.* 1136. *With.* 764.

Fructif. in linea marginali, continua. *Involucrum* e margine ipsius frondis inflexo, continuum, interius dehiscens.

Capsules *disposed in a line under the reflected edge of the leaf.*

aquilina. P. fronde supradecomposita: pinnulis lanceolatis acutiusculis: infimis pinnatifidis; superioribus minoribus.

P. *Leaves more than doubly compound: leafits winged: wings spear-shaped; the lowermost wing-cleft; the upper ones smaller.*

COMMON BRAKES. Heaths and woods; common. P. July.

CYATHEA. *Smith.* 1138.

Fructif. sparsæ, subrotundæ, calici hemisphærico, apice dehiscenti absque operculo, insidentes.

Fructifications *scattered, roundish, growing out of an hemispherical calyx, which bursts at the top without an operculum.*

C. fronde bipinnata: pinnulis pinatifidis inciso-serratis, floribus sparsis, calyce lacero, rachi alata. *fragilis.*

C. *Wings spear-shaped; leafits with a few irregular teeth towards the end: stem very slender and bristle.*

Polypodium fragile. *With.* 779.

BRITTLE CUP-FERN. Dry stony places. On the walls of Oxton Church. Miss Pigot. P. June, July.

FINIS

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